

# 2016-2017 Permit Year

Ventura Countywide Stormwater Quality

Management Program Annual Report

# Attachment D1 Monitoring Appendices A - E



Camarillo
County of Ventura
Fillmore
Moorpark
Ojai
Oxnard
Port Hueneme
Santa Paula
Simi Valley
Thousand Oaks
Ventura

Ventura County Watershed Protection District

Appendix A: Major Outfall Station Fact Sheets

# **Camarillo**

Waterbody: Camarillo Hills Drain (tributary to

Revolon Slough)

Location: Daily Rd. overcrossing (34°13'10.00"N,

119° 3'58.06"W)

**Pros:** Likely well-defined rating table **Cons:** Moderate potential for vandalism **Outstanding Site Selection Tasks:** None

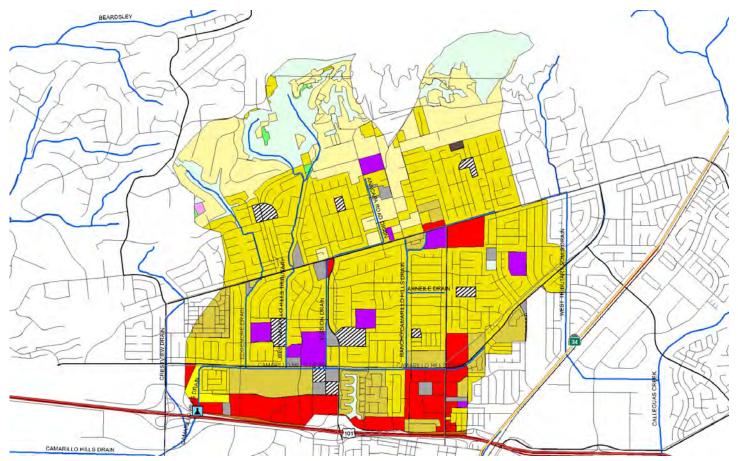
**Other Potential Sites:** None

Dry Season Flow Potential: Likely intermittent

year-round flow due to urban runoff







Entire City	1	
Land Use	Acres	% of Total Watershed
Agriculture	1585.8	12.6%
Com_Indus. Mix	12.5	0.1%
Commer.	657.2	5.2%
Extraction	58.4	0.5%
Facility	129.5	1.0%
Industrial_1	32.2	0.2%
Industrial_3	622.6	4.9%
Military_2	5.7	0.1%
No Info Given	202.2	1.6%
Recreation	489.4	3.9%
Res.1	1305.9	10.4%
Res.2	443.4	3.5%
Res.3	3253.5	25.9%
Res.4	525.0	4.2%
Schools	325.0	2.6%
Transportation	954.2	7.6%
Under Construction	294.8	2.3%
Utilities	255.8	2.0%
Vacant Undifferentiated	1423.4	11.4%
Totals	12576.4	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	6.1	0.2%
Commercial	213.5	7.7%
Facility	48.5	1.7%
No Info Given	57.4	2.1%
Res.1	453.4	16.3%
Res.2	235.0	8.5%
Res.3	1365.5	49.1%
Res.4	15.2	0.5%
Schools	80.6	2.9%
Transportation	11.7	0.4%
Under Construction	2.6	0.1%
Utilities	2.3	0.1%
Vacant Undifferentiated	287.4	10.3%
Totals	2779.1	100.0%

#### **Fillmore**

Waterbody: North Fillmore Drain (tributary to Sespe Creek)

Location: 75 yds. southwest of Old Telegraph Rd.

(34°24'16.51"N, 118°55'50.47"W)

**Pros:** Some portion of vegetation could be cleared by

City of Fillmore

Cons: Potential for vandalism

**Outstanding Site Selection Tasks:** None

Other Potential Sites: C Street Drain and Central

Ave. Drain

Dry Season Flow Potential: Likely intermittent

year-round flow due to urban runoff







Land Use	Acres	% of Total Watershed
Agriculture	274.8	13.0%
Com_Indus. Mix	10.4	1.0%
Commercial	103.2	5.0%
Facility	27.3	1.0%
Industrial_1	31.3	2.0%
Industrial_3	28.7	1.0%
No Info Given	21.9	1.0%
Res.1	52.8	3.0%
Res.2	44.6	2.0%
Res.3	693.1	34.0%
Schools	87.6	4.0%
Transportation	6.4	0.0%
Under Constructoni	58.4	3.0%
Utilities	45.8	2.0%
Vacant Undifferentiated	582.5	28.0%
Totals	2068.7	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	52.5	6.9%
Commercial	6.3	0.8%
Facility	5.1	0.7%
Industrial_1	14.1	1.9%
Industrial_3	23.4	3.1%
No Info Given	9.9	1.3%
Res.1	6.1	0.8%
Res.2	29.7	3.9%
Res.3	255.7	33.6%
Schools	75.3	9.9%
Utilities	23.1	3.0%
Vacant Undifferentiated	260.6	34.2%
Totals	761.7	100.0%

# **Meiners Oaks (Unincorporated)**

**Waterbody:** Happy Valley Drain (tributary to Ventura

River)

**Location:** Southwest of Lomita Rd. and Rice Rd. intersection (34°26'43.98"N, 119°17'25.18"W)

**Pros:** Good control, good access, existing stream flow

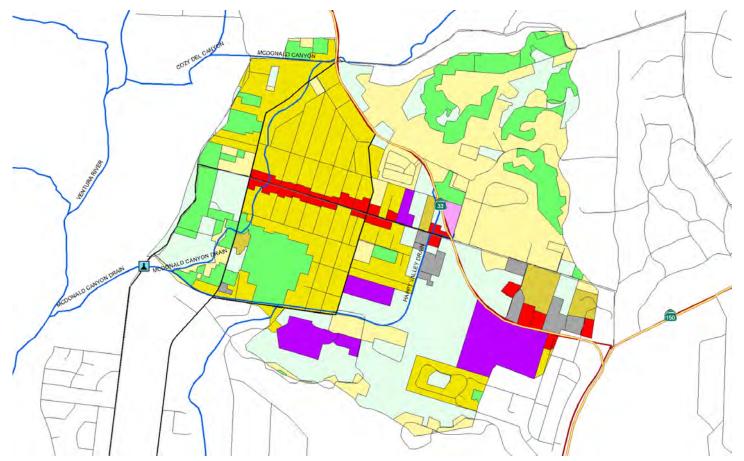
gauge

Dry Season Flow Potential: Unknown at end of rainy

season; unlikely later in summer







Land Use	Acres	% of Total Watershed
Agriculture	658.0	21.5%
Cemeteries	0.0	0.0%
Commercial	33.0	1.1%
Facility	15.5	0.5%
Recreation	29.9	1.0%
Res.1	812.3	26.5%
Res.2	43.9	1.4%
Res.3	463.4	15.1%
Schools	46.5	1.5%
Utilities	19.3	0.6%
Vacant Undifferentiated	945.0	30.8%
Totals	3066.8	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	152.1	14.8%
Commercial	30.8	3.0%
Facility	20.8	2.0%
Res.1	234.0	22.8%
Res.2	22.0	2.1%
Res.3	249.9	24.4%
Schools	63.6	6.2%
Utilities	3.8	0.4%
Vacant Undifferentiated	248.8	24.3%
Totals	1025.9	100.0%

## **Moorpark**

Waterbody: Gabbert Canyon Drain (tributary to

Arroyo Las Posas)

**Location:** North side of SR 118 near southwest corner of So. Cal. Edison property (34°16'44.29"N, 118°54'19.40"W)

**Pros:** Likely well-defined rating table

Cons: Aerial deposition from vehicular traffic on

118, potential for vandalism

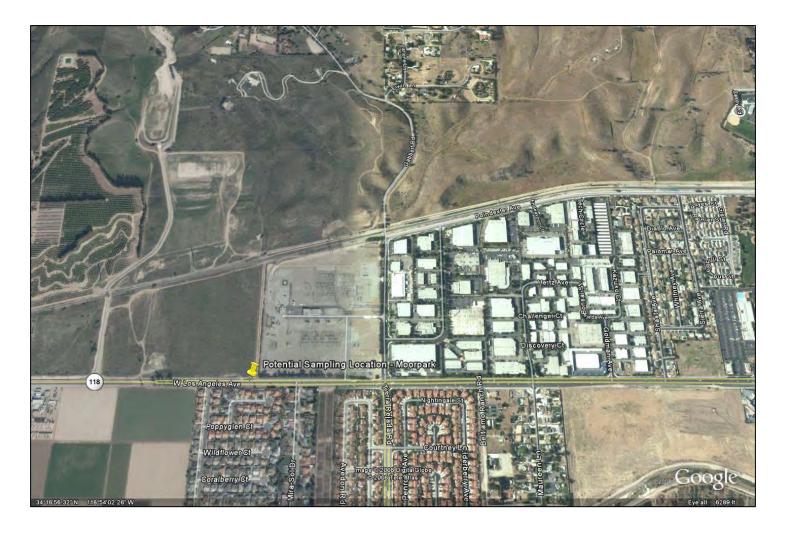
Outstanding Site Selection Tasks: Move sampling

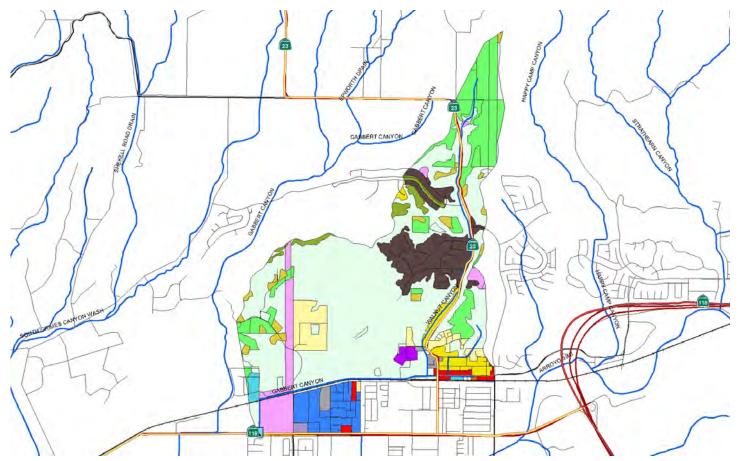
location shown on watershed map

Other Potential Sites: Upstream current location, although site would interfere with access road **Dry Season Flow Potential:** Likely intermittent

year-round flow due to urban runoff







Entire City		
Land Use	Acres	% of Total Watershed
Land Use	Acres	% of Total Watershed
Agriculture	351.7	4.0%
Com_Indus. Mix	9.1	0.0%
Commercial	196.3	2.0%
Extraction	39.2	0.0%
Facility	40.9	1.0%
Industrial_1	21.3	0.0%
Industrial_3	225.2	3.0%
No Info Given	148.3	2.0%
Recreation	186.1	2.0%
Res.1	213.5	3.0%
Res.2	190.4	2.0%
Res.3	1854.6	23.0%
Res.4	106.8	1.0%
Schools	302.1	4.0%
Transportation	198.0	2.0%
Under Construction	472.9	6.0%
Utilities	211.9	3.0%
Vacant Undifferentiated	3213.1	40.0%
Totals	7981.5	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	230.0	12.7%
Commercial	19.9	1.1%
Extraction	5.8	0.3%
Facility	16.8	0.9%
Industrial_1	13.3	0.7%
Industrial_3	90.4	5.0%
Recreation	31.0	1.7%
Res.1	82.3	4.5%
Res.2	37.4	2.1%
Res.3	56.3	3.1%
Res.4	1.5	0.1%
Schools	10.5	0.6%
Transportation	3.1	0.2%
Under Construction	166.2	9.2%
Utilities	100.7	5.5%
Vacant Undifferentiated	950.8	52.4%
Totals	1816.2	100.0%

#### **Ojai**

Waterbody: Fox Canyon Barranca (tributary to San

Antonio Creek)

**Location:** Concrete box channel upstream Ojai Valley Athletic Club and downstream pedestrian walkway (34°26'41.25"N, 119°14'28.43"W)

Pros: Numerous bridges to sample from, located behind

VCWPD gate, likely well-defined rating table

Cons: Some potential for vandalism

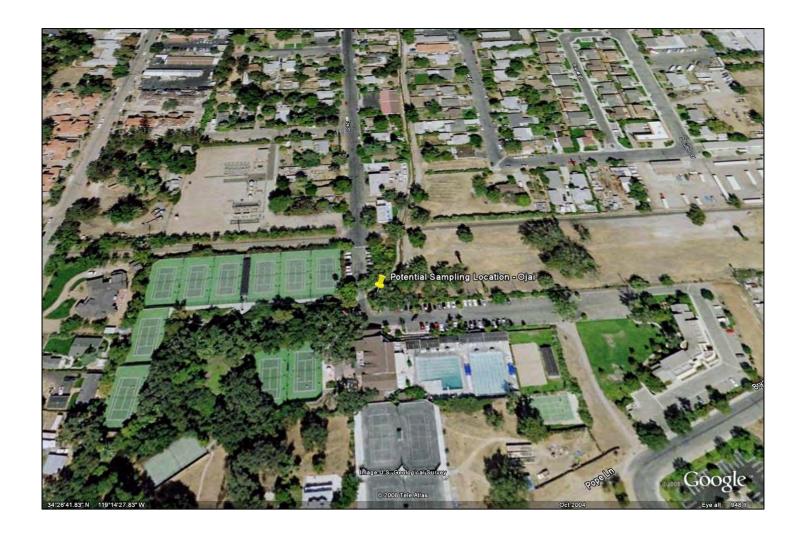
**Outstanding Site Selection Tasks:** Work with VCWPD O&M to ensure enclosure doesn't interfere

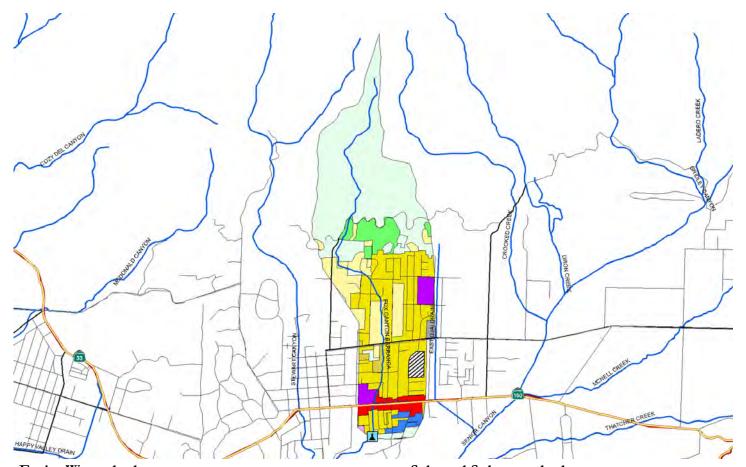
with maintenance activities **Other Potential Sites:** Downstream where Stewart

Canyon crosses beneath Ventura St. (bioassessment #8) **Dry Season Flow Potential:** Likely intermittent year-

round flow due to urban runoff







#### **Entire Watershed**

Land Use	Acres	% of Total Watershed
Agriculture	83.1	3.0%
Cemeteries	3.8	0.1%
Com_Indus. Mix	7.6	0.3%
Commercial	155.1	5.6%
Facility	43.2	1.5%
Industrial_3	13.2	0.5%
No Info Given	55.6	2.0%
Recreation	312.1	11.2%
Res.1	620.7	22.2%
Res.2	61.3	2.2%
Res.3	534.8	19.1%
Res.4	3.3	0.1%
Schools	100.6	3.6%
Utilities	32.9	1.2%
Vacant Undifferentiated	767.1	27.5%
Totals	2794.7	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	37.3	5.0%
Commercial	23.8	3.2%
Facility	4.1	0.6%
Industrial_3	11.4	1.5%
No Info Given	10.0	1.3%
Recreation	0.1	0.0%
Res.1	84.3	11.3%
Res.2	8.0	1.1%
Res.3	210.9	28.2%
Res.4	0.1	0.0%
Schools	20.2	2.7%
Utilities	1.0	0.1%
Vacant Undifferentiated	337.5	45.1%
Totals	748.6	100.0%

# **Oxnard**

Waterbody: El Rio Drain (tributary to Santa Clara

River)

Location: Pedestrian bridge 50 yds. southwest bend of

Winchester Dr. (34°14'10.10"N, 119°11'3.93"W)

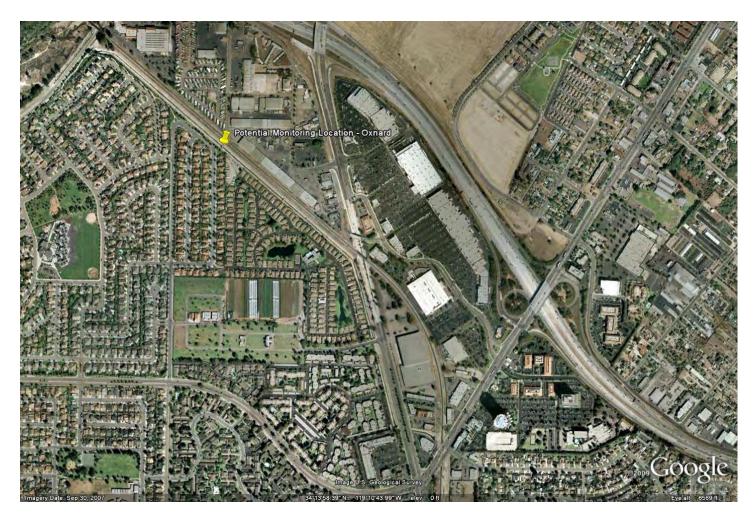
**Pros:** Likely well-defined rating table **Cons:** High potential for vandalism **Outstanding Site Selection Tasks:** None

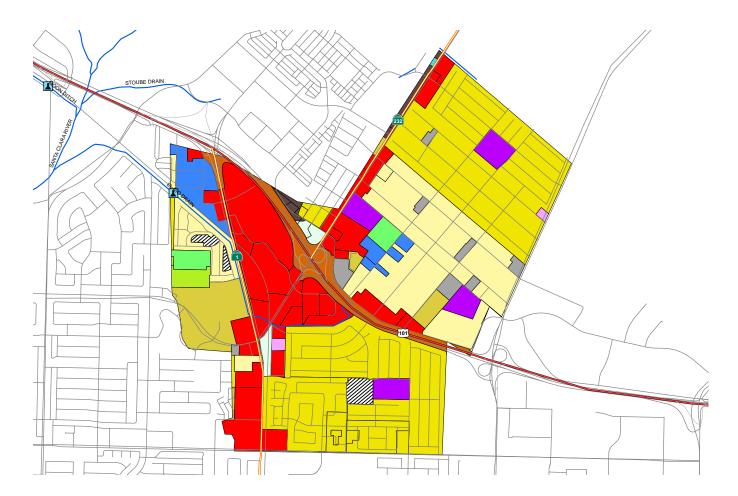
**Other Potential Sites:** None

Dry Season Flow Potential: Likely intermittent year-

round flow due to urban runoff







Entire City		
Land Use	Acres	% of Total Watershed
Agriculture	969.4	5.6%
Cemeteries	22.4	0.1%
Com_Indus. Mix	165.1	0.9%
Commercial	1385.9	8.0%
Extraction	227.3	1.3%
Facility	244.8	1.4%
Industrial_1	163.7	1.0%
Industrial_3	1104.0	6.5%
Industrial_4	62.3	0.4%
Military_1	1.7	0.0%
Military_2	4.0	0.0%
No Info Given	371.6	2.2%
Recreation	679.4	3.9%
Res.1	369.1	2.2%
Res.2	1149.3	6.7%
Res.3	5892.4	34.3%
Res.4	163.0	1.0%
Schools	703.5	4.1%
Transportation	560.5	3.3%
Under Construction	802.6	4.7%
Utilities	298.0	1.8%
Vacant Undifferentiated	1740.2	10.1%
Water	82.0	0.5%
Totals	17162.2	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	19.0	1.5%
Cemeteries	9.7	0.7%
Commercial	253.5	19.5%
Facility	22.1	1.7%
Industrial_1	0.7	0.1%
Industrial_3	40.4	3.1%
No Info Given	14.0	1.1%
Res.1	243.3	18.7%
Res.2	69.8	5.4%
Res.3	500.1	38.5%
Schools	42.9	3.3%
Transportation	55.3	4.3%
Under Construction	12.4	1.0%
Utilities	3.5	0.3%
Vacant Undifferentiated	11.7	0.9%
Totals	1298.2	100.0%

## **Port Hueneme**

**Waterbody:** Hueneme Drain (tributary to Pacific Ocean)

**Location:** Pump Station 300 yds. downstream Surfside Dr. (34°8'26.91"N, 119°11'17.58"W)

Pros: Grass-covered sides fairly stable

Cons: Lots of activity nearby, high potential for

vandalism, stagnant water

Outstanding Site Selection Tasks: Verify positive

flow

Other Potential Sites: At Surfside Rd. at lower end

of Bubbling Springs Park

**Dry Season Flow Potential:** Likely year-round flow due to urban runoff and groundwater contribution







Land Use	Acres	% of Total Watershed
Commercial	105.4	3.7%
Facility	20.4	0.7%
Industrial_1	32.5	1.1%
Industrial_3	34.9	1.2%
Military_2	1558.4	54.0%
No Info Given	53.7	1.9%
Recreation	38.5	1.3%
Res.2	308.3	10.7%
Res.3	432.9	15.0%
Res.4	104.3	3.6%
Schools	41.6	1.4%
Transportation	29.7	1.0%
Under Construction	2.1	0.1%
Utilities	6.0	0.2%
Vacant Undifferentiated	35.4	1.2%
Water	83.6	2.9%
Totals	2887.9	100.0%

Land Use	Acres	% of Total Watershed
Commercial	19.2	3.3%
Facility	15.1	2.6%
Industrial_3	10.0	1.7%
Military_2	5.7	1.0%
No Info Given	35.8	6.1%
Res.2	45.5	7.7%
Res.3	359.1	60.9%
Res.4	40.9	6.9%
Schools	32.6	5.5%
Under Construction	2.1	0.4%
Utilities	6.5	1.1%
Vacant Undifferentiated	16.8	2.9%
Totals	589.4	100.0%

# Santa Paula

Waterbody: 11<sup>th</sup> Street Drain (tributary to Santa

Clara River)

**Location:** Upstream Santa Paula Airport

(34°20'54.99"N, 119° 3'19.82"W)

Pros: Excellent flat pad on top of outfall for sampling

equipment

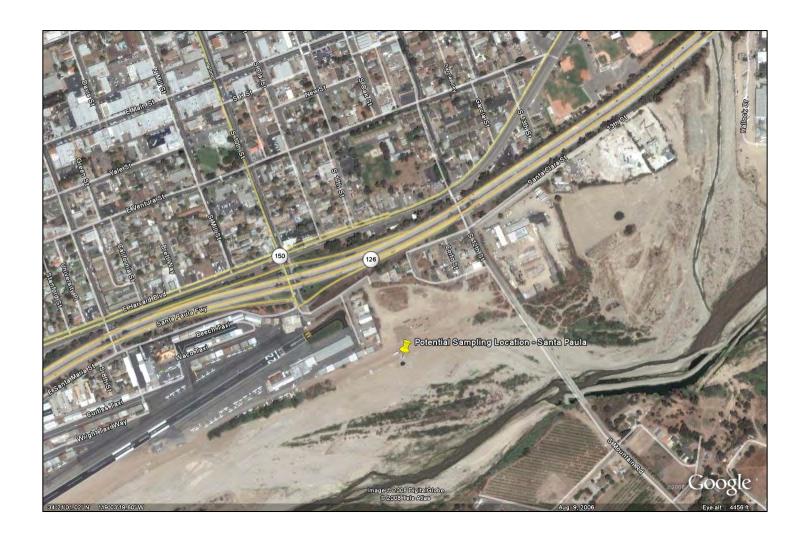
Cons: High potential for vandalism
Outstanding Site Selection Tasks: None

**Other Potential Sites:** None

**Dry Season Flow Potential:** Likely intermittent year-round flow due to urban runoff. No flow at time of

initial observation







Land Use	Acres	% of Total Watershed
Agriculture	210.3	7.0%
Cemeteries	19.4	0.7%
Com_Indus. Mix	4.6	0.2%
Commercial	235.4	7.8%
Extraction	30.5	1.0%
Facility	42.4	1.4%
Industrial_1	73.7	2.4%
Industrial_3	133.0	4.5%
No Info Given	33.5	1.1%
Recreation	4.7	0.2%
Res.1	266.9	8.9%
Res.2	86.8	2.9%
Res.3	1065.9	35.5%
Res.4	46.8	1.6%
Schools	91.7	3.1%
Transportation	166.4	5.5%
Under Construction	8.7	0.3%
Utilities	41.1	1.4%
Vacant Undifferentiated	440.6	14.7%
Totals	3002.4	100.0%

Selected Subwatershed

Land Use	Acres	% of Total Watershed
Commercial	9.4	14.7%
Industrial_1	2.5	4.0%
Res.2	2.8	4.3%
Res.3	30.5	47.7%
Schools	6.4	10.0%
Transportation	6.8	10.6%
Utilities	4.9	7.6%
Vacant Undifferentiated	0.8	1.2%
Totals	64.0	100.0%

#### Simi Valley

**Waterbody:** Bus Canyon Drain (tributary to Arroyo Simi)

**Location:** North of intersection at 5<sup>th</sup> St. and Los Angeles Ave. (34°16′18.59"N, 118°47′1.51"W) **Pros:** Likely well-defined rating table, located

behind VCWPD gate

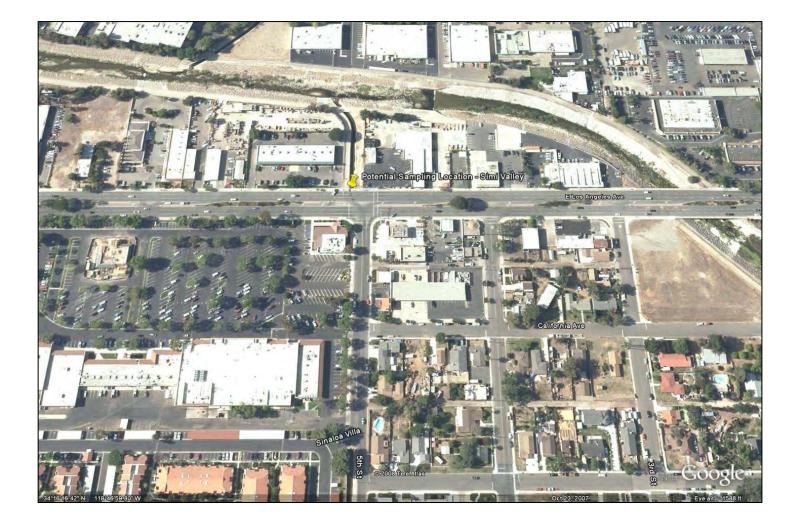
Cons: Pedestrian traffic on levee nearby

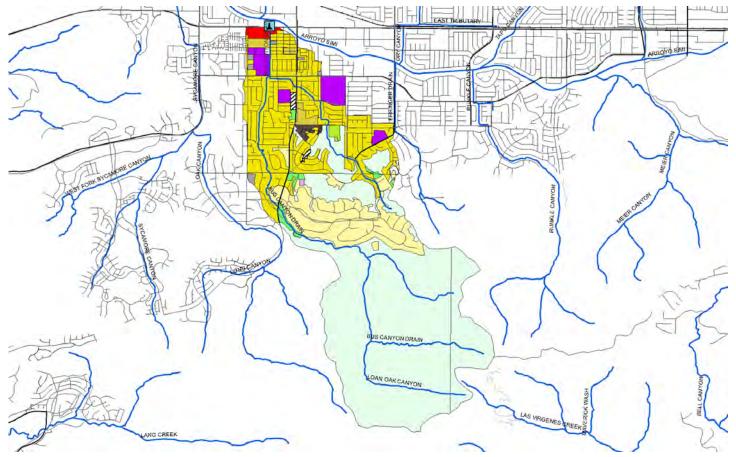
**Outstanding Site Selection Tasks:** Assess impacts of large groundwater discharge upstream, move sampling location shown on watershed map

**Other Potential Sites:** Upstream at 5<sup>th</sup> and Ventura Ave.

**Dry Season Flow Potential:** Likely year round flow due to urban runoff and groundwater discharge upstream







Entire City	ı	
Land Use	Acres	% of Total Watershed
Agriculture	435.5	1.6%
Cemeteries	34.3	0.1%
Com_Indus. Mix	24.4	0.1%
Commercial	1051.4	3.9%
Extraction	111.8	0.4%
Facility	217.1	0.8%
Industrial_1	50.3	0.2%
Industrial_3	353.3	1.3%
Industrial_4	5.9	0.0%
No Info Given	382.0	1.5%
Recreation	560.9	2.0%
Res.1	1025.0	3.7%
Res.2	586.0	2.2%
Res.3	7947.7	29.5%
Res.4	110.7	0.4%
Schools	517.5	1.9%
Transportation	546.9	2.0%
Under Construction	385.6	1.4%
Utilities	261.0	1.0%
Vacant Undifferentiated	12291.5	45.6%
Totals	26898.6	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	33.0	1.0%
Cemeteries	10.1	0.3%
Commercial	22.6	0.7%
Facility	12.9	0.4%
No Info Given	9.4	0.3%
Res.1	395.5	11.9%
Res.2	40.3	1.2%
Res.3	782.9	23.6%
Schools	96.7	2.9%
Under Construction	15.5	0.5%
Utilities	1.8	0.1%
Vacant Undifferentiated	1900.0	57.2%
Totals	3320.7	100.0%

## **Thousand Oaks**

Waterbody: North Fork Arroyo Conejo (tributary to

Conejo Creek)

**Location:** Hill Canyon WWTP sampling location R-

1(34°12'49.16"N, 118°55'16.24"W)

**Pros:** Very secure, helpful staff onsite, fairly well-defined channel, accessible via concrete stairs **Cons:** Late-night access to WWTP could present

problem

**Outstanding Site Selection Tasks:** None

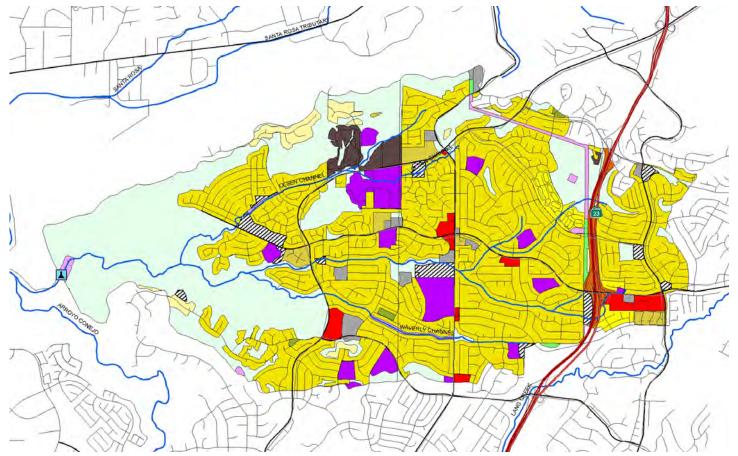
**Other Potential Sites:** None

**Dry Season Flow Potential:** Likely year-round flow

due to urban runoff







Entire City		T
Land Use	Acres	% of Total Watershed
Agriculture	207.0	0.6%
Com_Indus. Mix	23.2	0.1%
Commercial	1499.7	4.2%
Extraction	9.0	0.0%
Facility	291.6	0.8%
Industrial_1	94.3	0.3%
Industrial_3	457.7	1.3%
No Info Given	459.2	1.3%
Recreation	574.2	1.7%
Res.1	1683.9	4.7%
Res.2	1000.3	2.8%
Res.3	9323.6	26.4%
Res.4	288.1	0.8%
Schools	587.6	1.7%
Transportation	605.4	1.7%
Under Construction	281.6	0.8%
Utilities	260.6	0.7%
Vacant Undifferentiated	17465.1	49.7%
Totals	35111.8	100.0%

Land Use	Acres	% of Total Watershed
Agriculture	13.5	0.3%
Commercial	83.5	1.6%
Facility	67.3	1.3%
No Info Given	95.4	1.8%
Recreation	8.7	0.2%
Res.1	89.8	1.7%
Res.2	71.5	1.4%
Res.3	2643.8	51.0%
Res.4	84.0	1.6%
Schools	224.2	4.3%
Transportation	61.5	1.2%
Under Construction	79.4	1.5%
Utilities	53.3	1.0%
Vacant Undifferentiated	1603.6	31.0%
Totals	5179.3	100.0%

#### Ventura

**Waterbody:** Moon Ditch (tributary to Santa Clara River)

**Location:** Between Leland St. and US 101, north of Johnson Dr. (34°14'35.86"N, 119°11'40.86"W)

**Pros:** Likely well-defined rating table, fairly good

protection (located behind VCWPD gate)

Cons: Wide concrete bottom will spread out low flows, placement of intake somewhat difficult Outstanding Site Selection Tooks: None

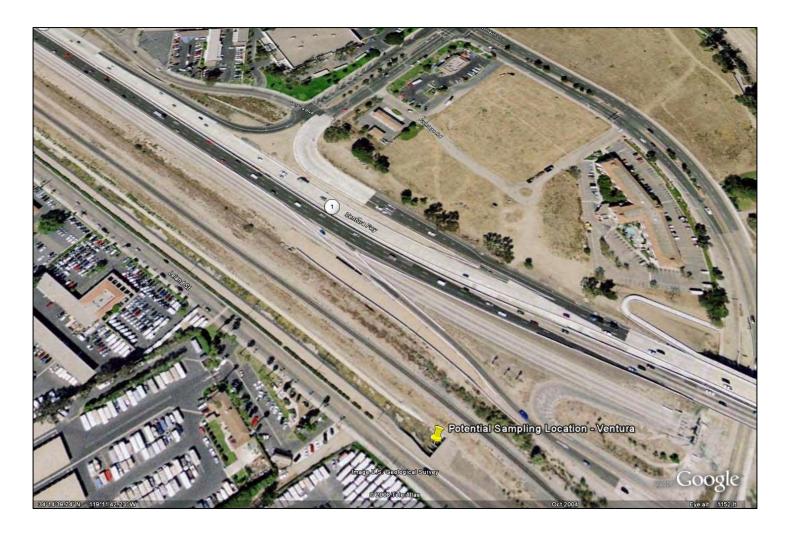
**Outstanding Site Selection Tasks:** None

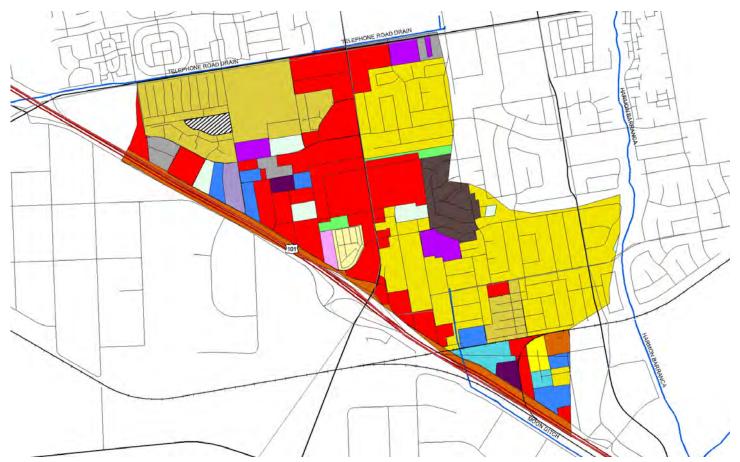
**Other Potential Sites:** None

Dry Season Flow Potential: Likely intermittent

year-round flow due to urban runoff





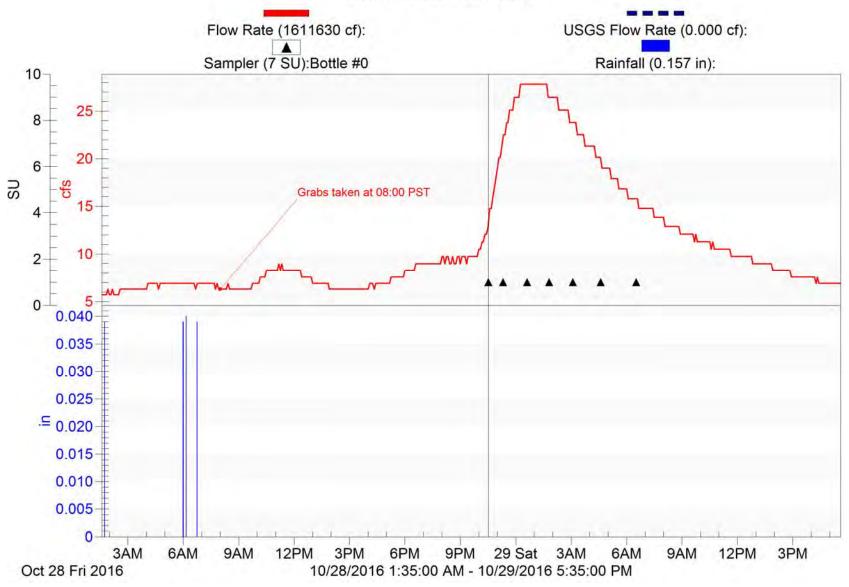


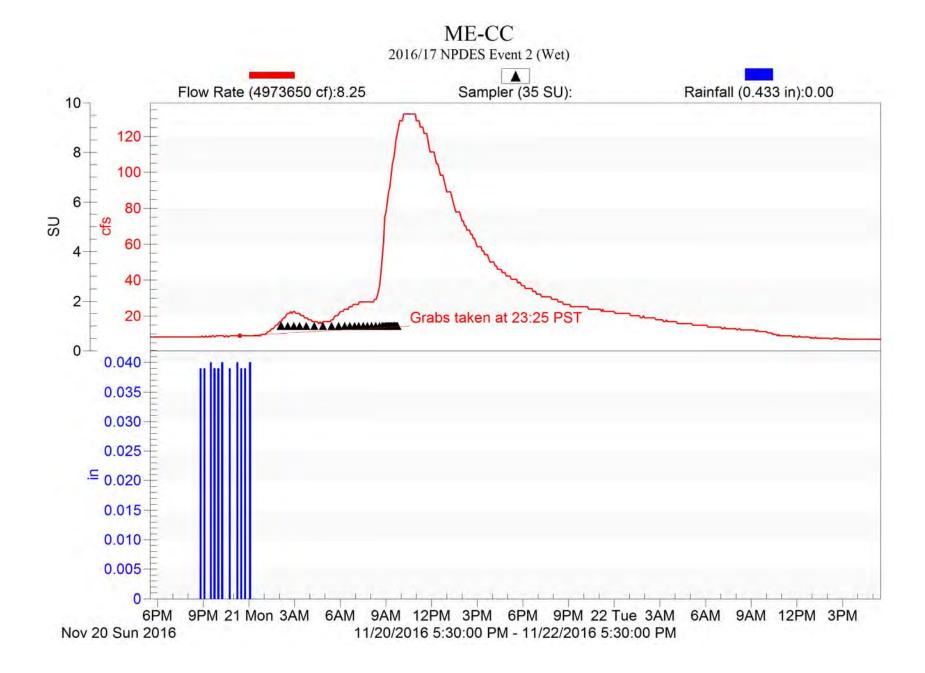
Entire City		% of Total
Land Use	Acres	Watershed
Agriculture	667.6	4.7%
Cemeteries	72.6	0.5%
Com_Indus. Mix	95.4	0.7%
Commercial	1402.9	10.0%
Extraction	39.2	0.3%
Facility	303.8	2.2%
Industrial_1	90.5	0.6%
Industrial_3	619.6	4.5%
Military_2	3.6	0.0%
No Info Given	285.7	2.1%
Recreation	516.3	3.7%
Res.1	361.1	2.6%
Res.2	924.0	6.6%
Res.3	5209.6	37.2%
Res.4	72.4	0.5%
Res.5	2.8	0.0%
Schools	495.8	3.6%
Transportation	570.0	4.1%
Under Construction	73.7	0.5%
Utilities	125.4	0.9%
Vacant Undifferentiated	2018.1	14.4%
Water	61.5	0.4%
Total	s 14011.6	100.0%

		% of Total
Land Use	Acres	Watershed
Agriculture	5.8	0.8%
Com_Indus. Mix	6.5	0.9%
Commercial	171.7	24.3%
Extraction	6.3	0.9%
Facility	14.6	2.1%
Industrial_1	10.8	1.5%
Industrial_3	23.0	3.2%
No Info Given	5.4	0.8%
Res.1	8.7	1.2%
Res.2	109.1	15.4%
Res.3	234.8	33.2%
Res.4	4.8	0.7%
Schools	18.4	2.6%
Transportation	40.7	5.8%
Under Construction	26.6	3.8%
Utilities	3.5	0.5%
Vacant Undifferentiated	16.3	2.3%
Totals	707.1	100.0%

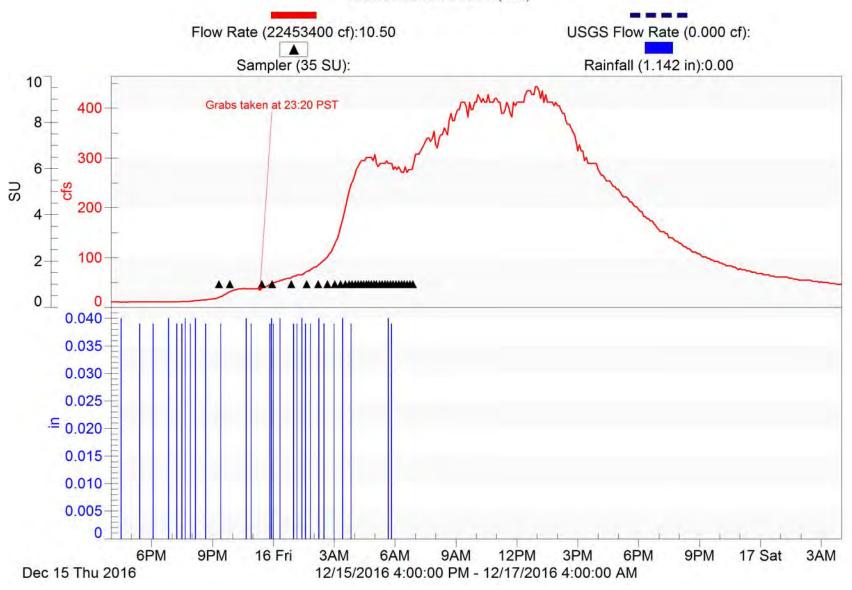
Appendix B. Event Hydrographs

ME-CC 2016/17 NPDES Event 1 (Wet)

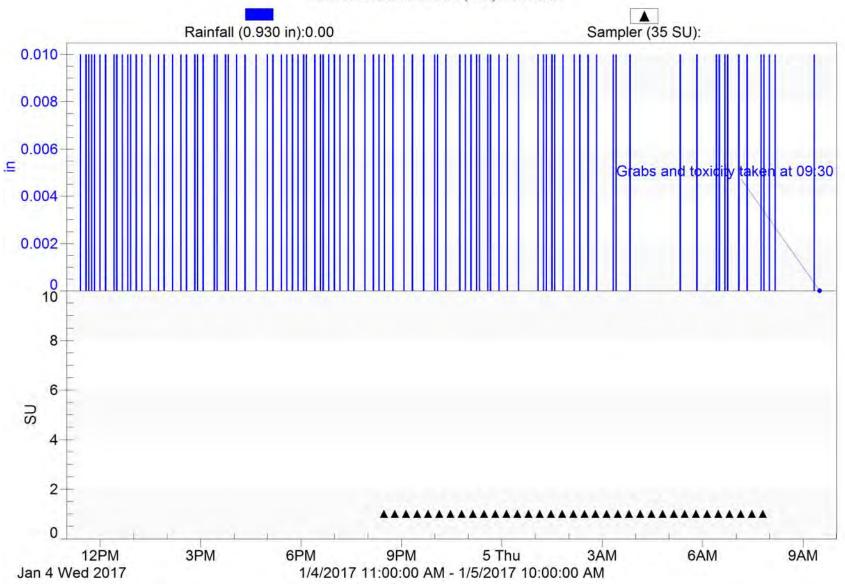




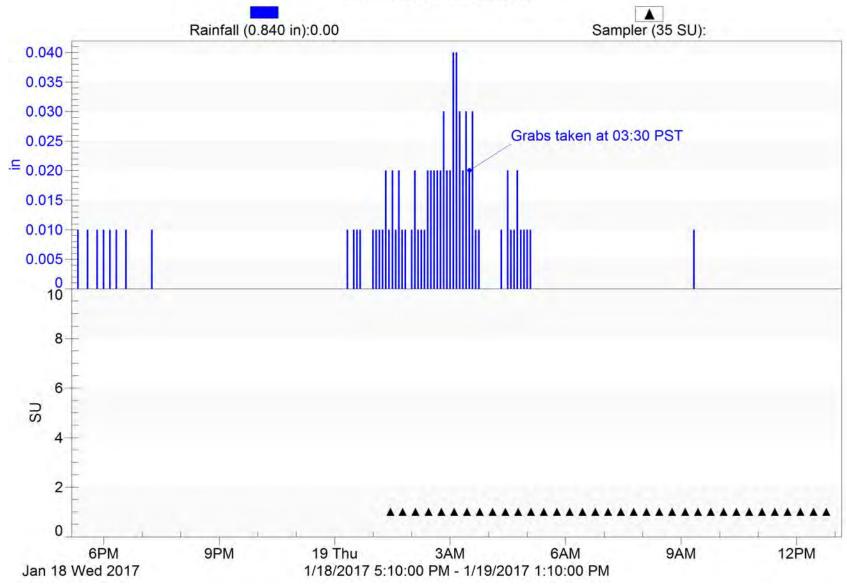
ME-CC 2016/17 NPDES Event 3 (Wet)

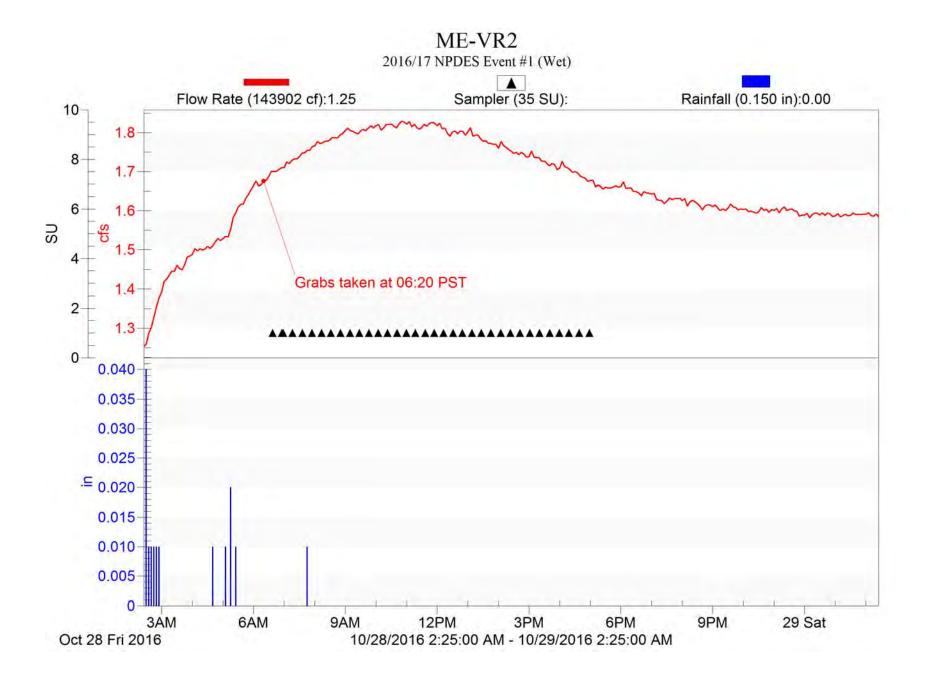


ME-SCR 2016/17 NPDES Event #4 (Wet) First Flush

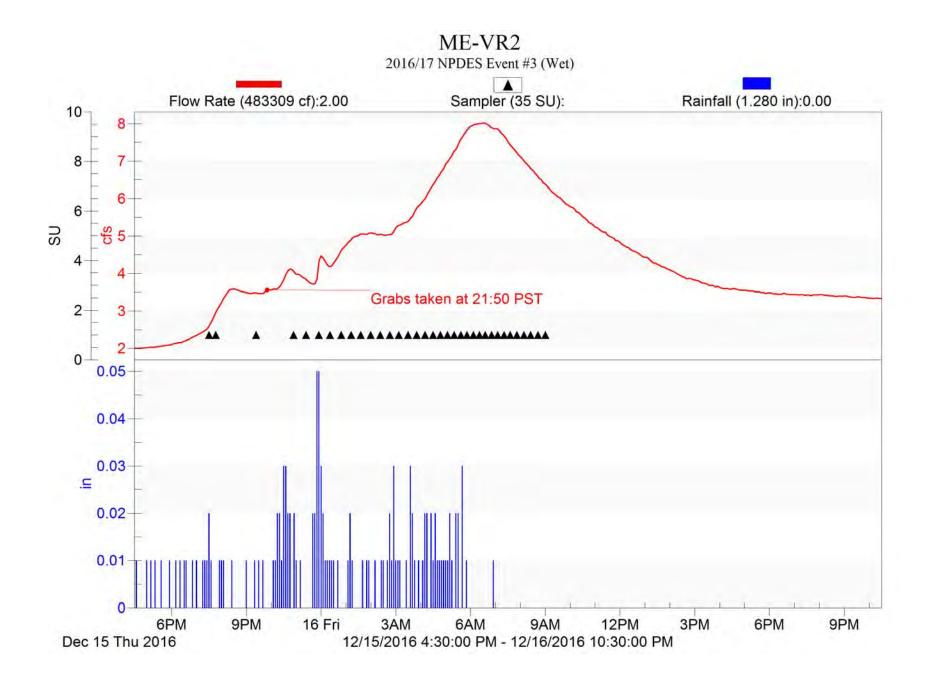


ME-SCR 2016/17 NPDES Event #5 (Wet)

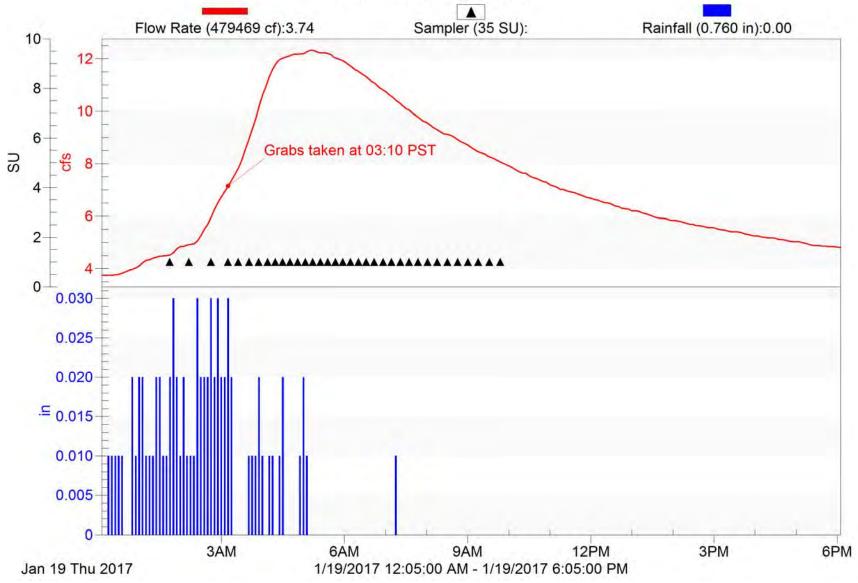




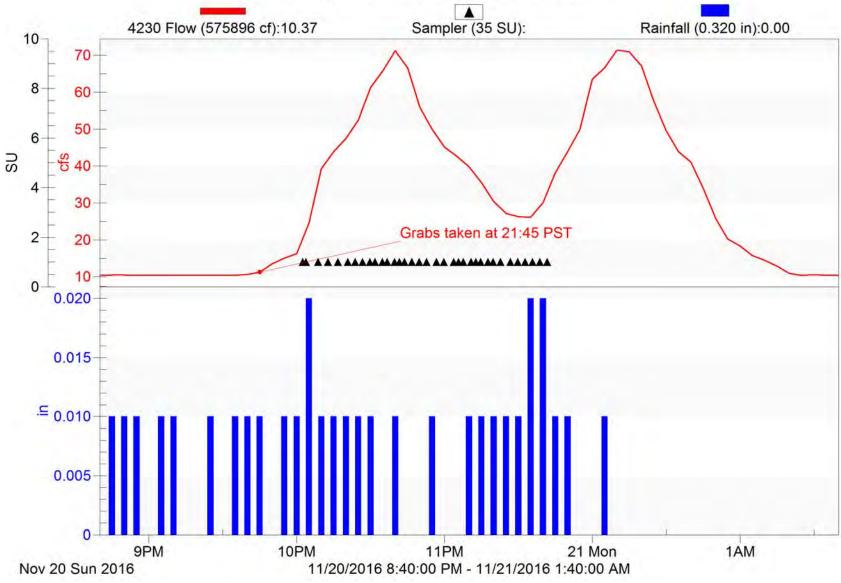
ME-VR2 2016/17 NPDES Event #2 (Wet) Flow Rate (244141 cf):1.36 Rainfall (0.250 in):0.00 Sampler (31 SU): 10 8 3.0 6 SU 2.0 Grabs taken at 23:40 PST 2 0 0.030 0.025 0.020 .⊆ <sub>0.015</sub>-0.010 0.005 **3AM** 9PM 21 Mon 6AM 9AM 12PM 3PM 6PM 9PM 22 Tue Nov 20 Sun 2016 11/20/2016 8:00:00 PM - 11/22/2016 2:00:00 AM

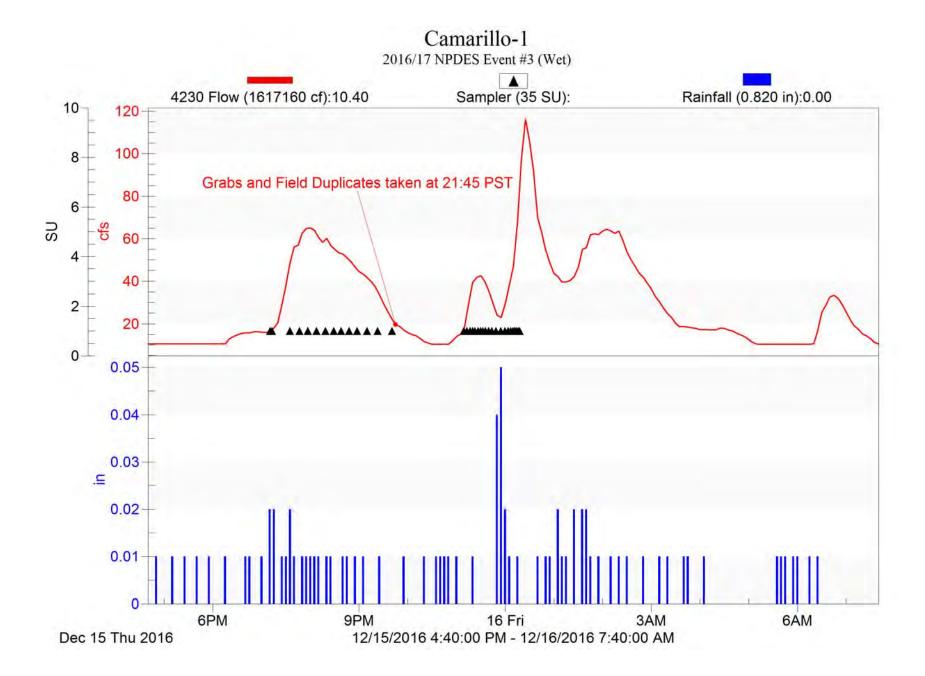


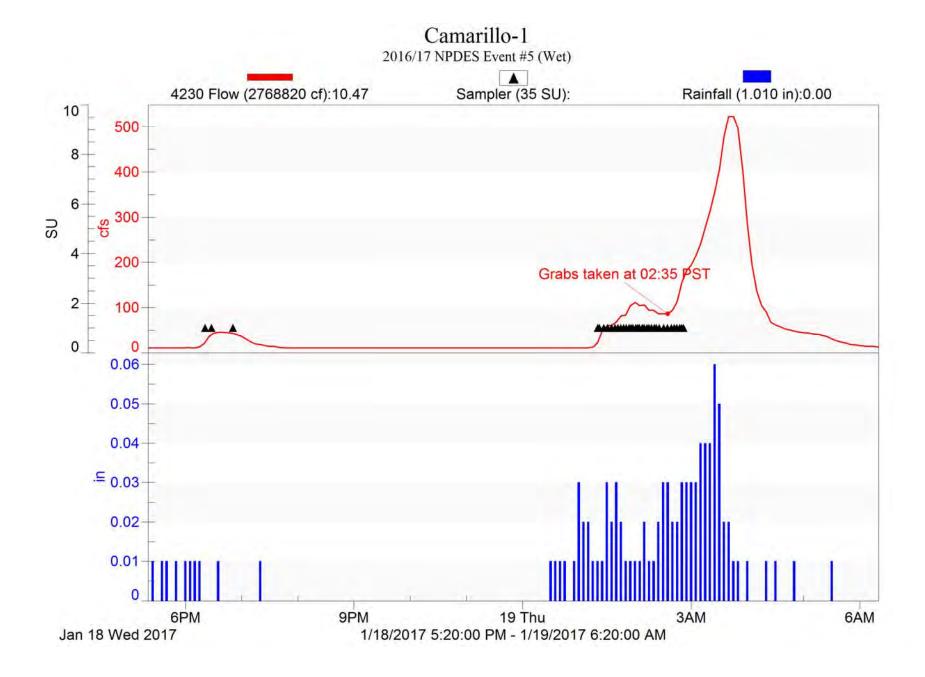
ME-VR2 2016/17 NPDES Event #5 (Wet)

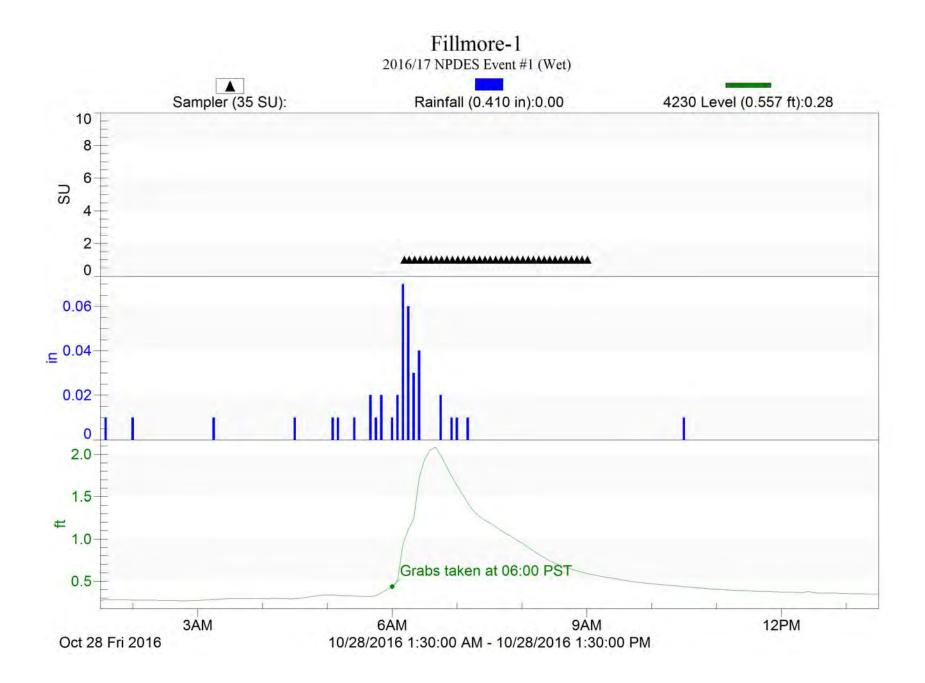


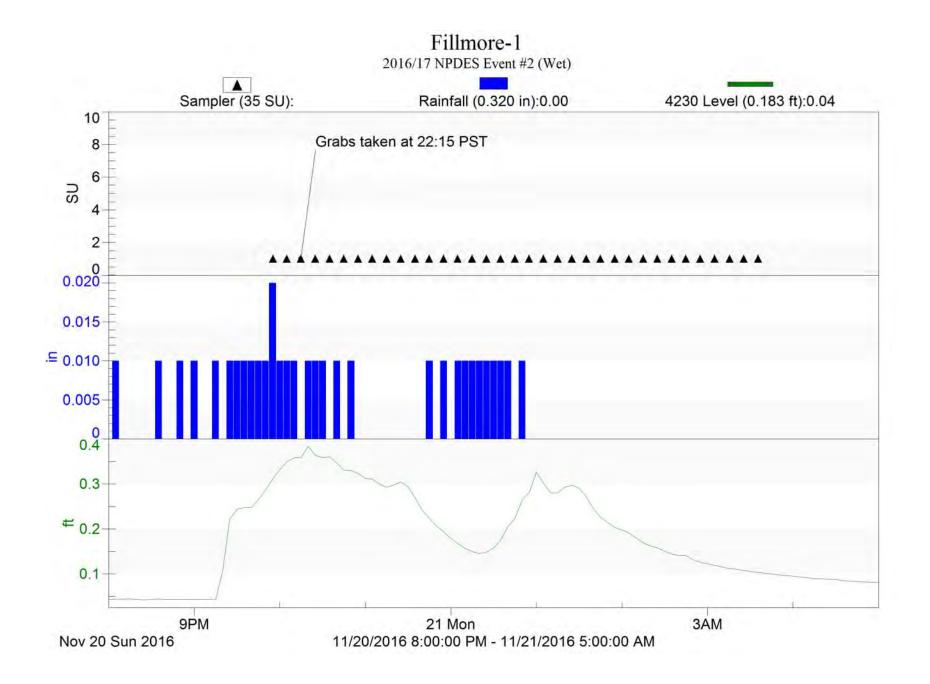
Camarillo-1
2016/17 NPDES Event #2 (Wet) - First Flush Event

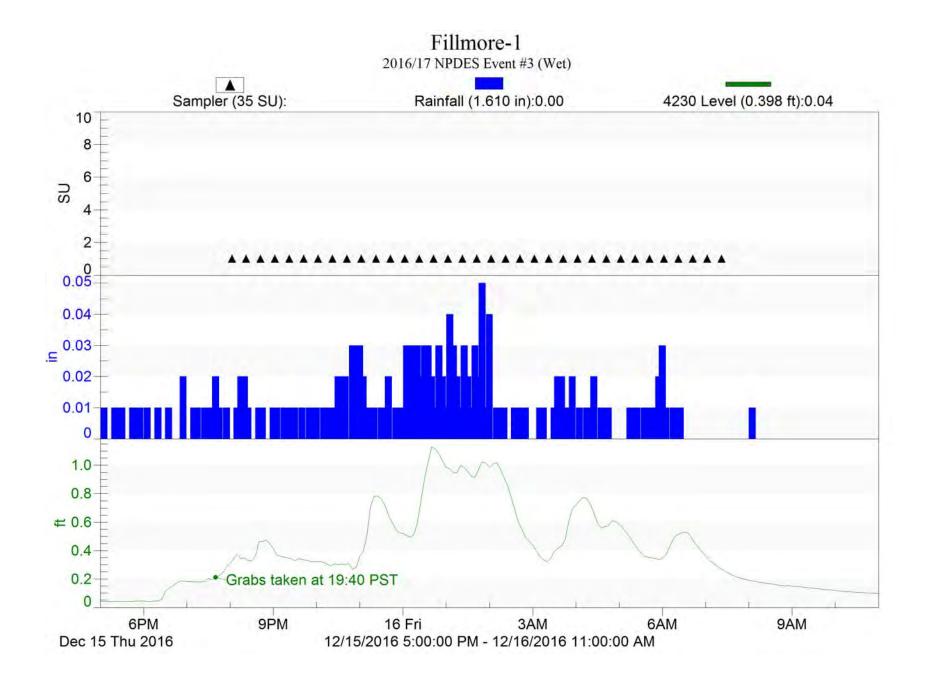




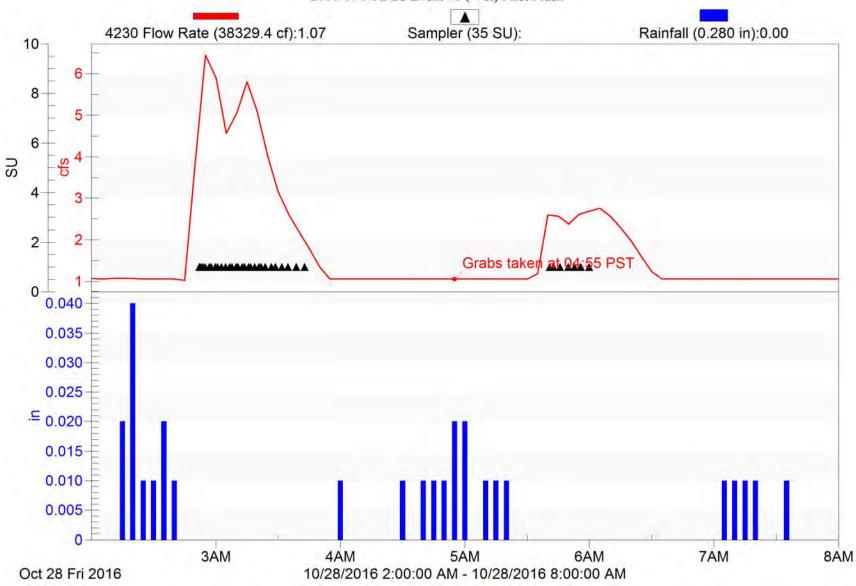


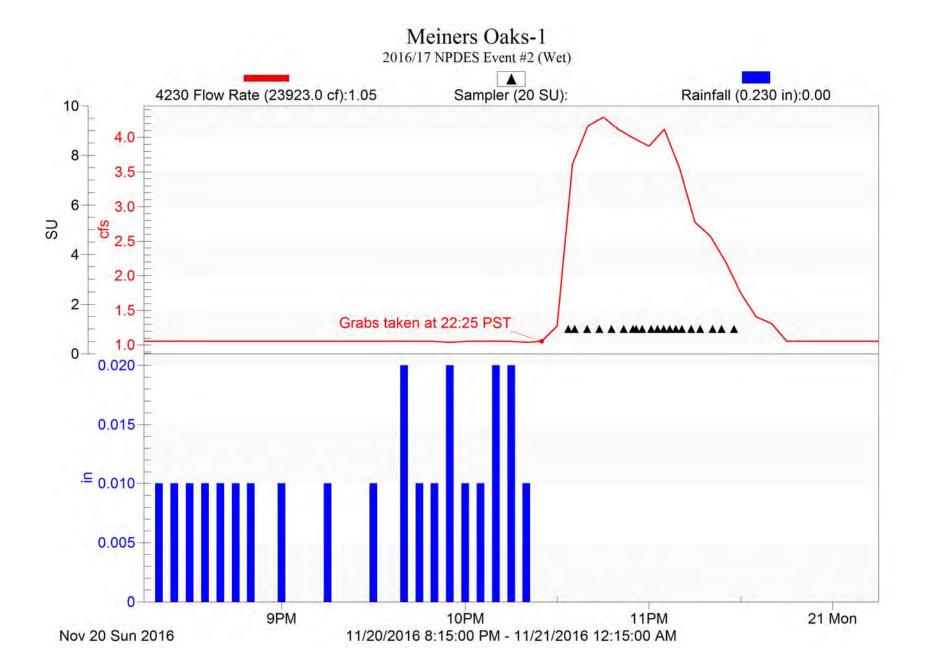


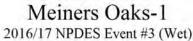


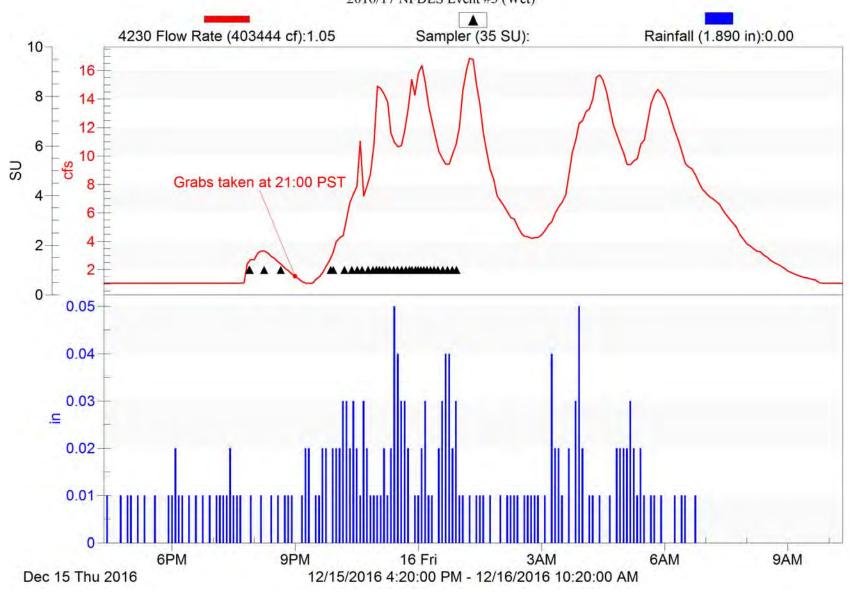


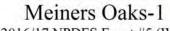
Meiners Oaks-1 2016/17 NPDES Event #1 (Wet) First Flush

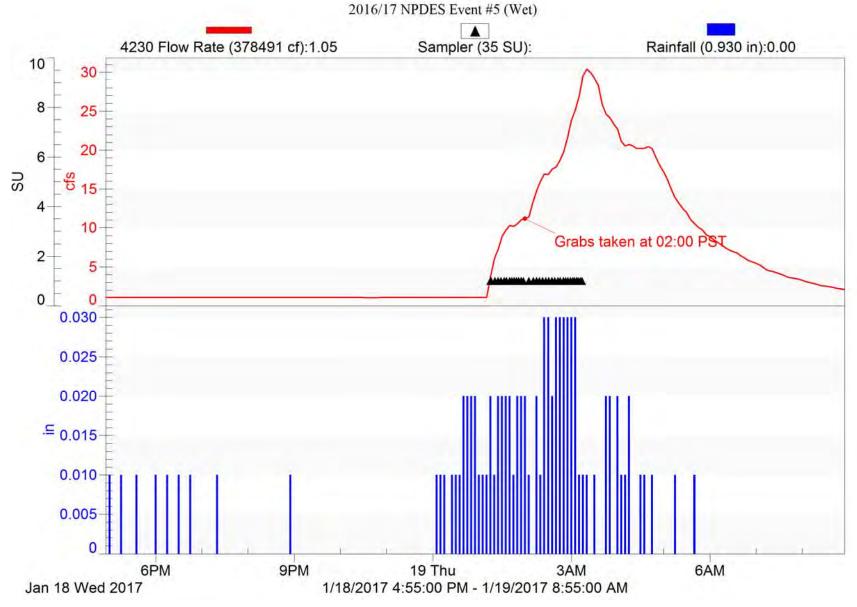


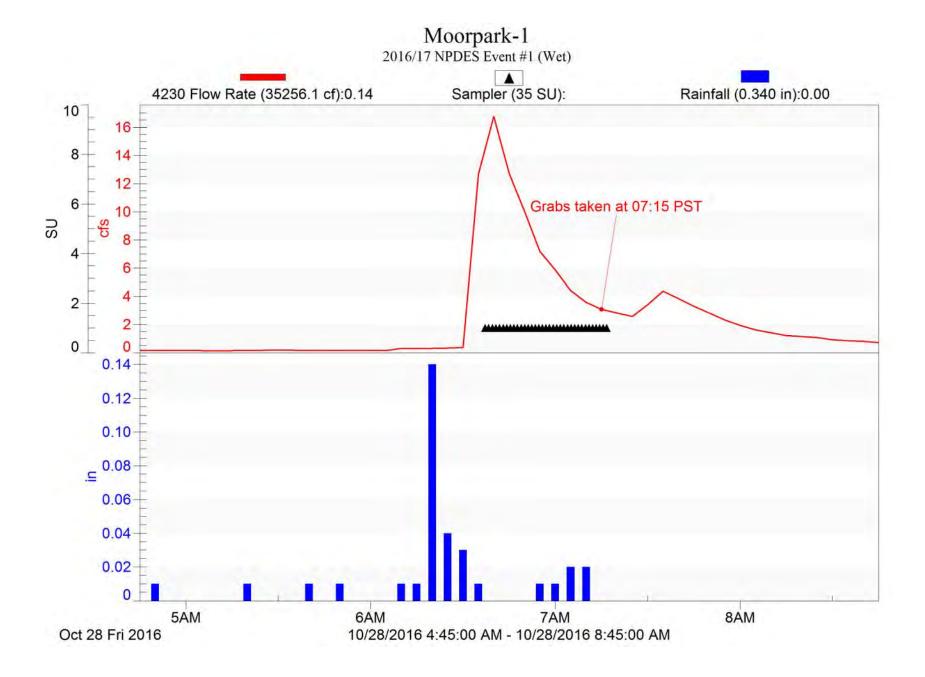


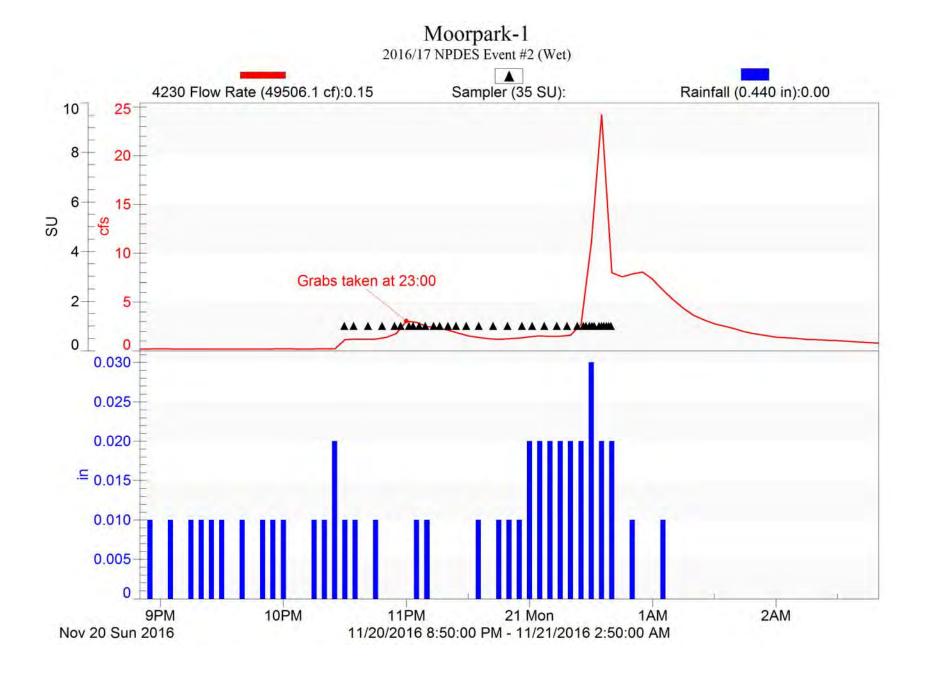


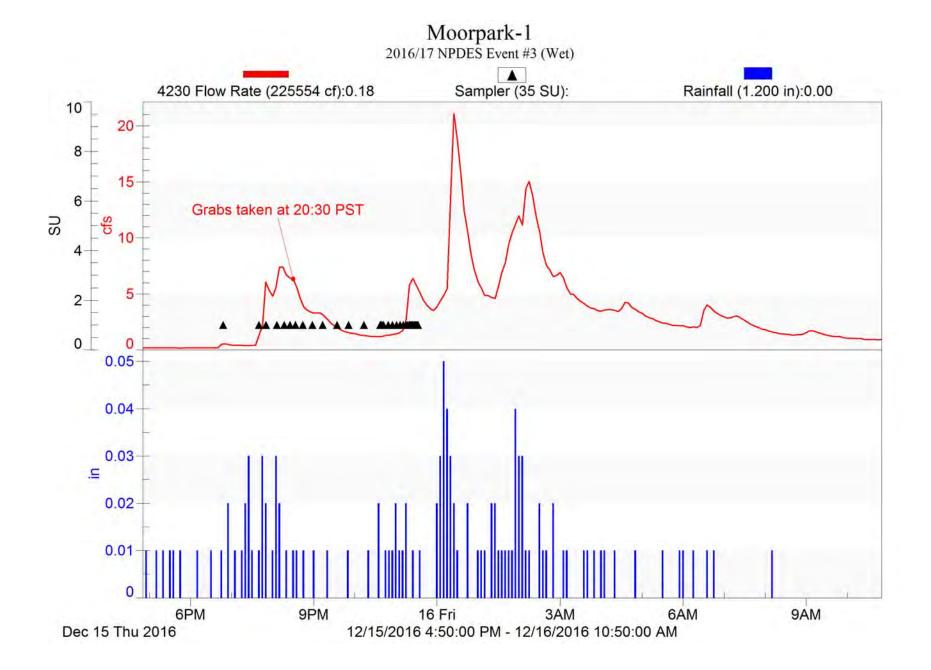




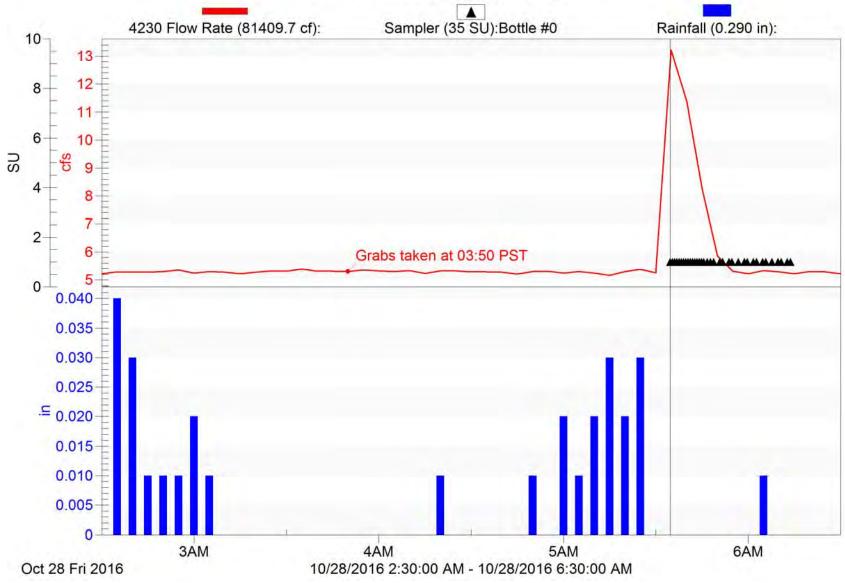


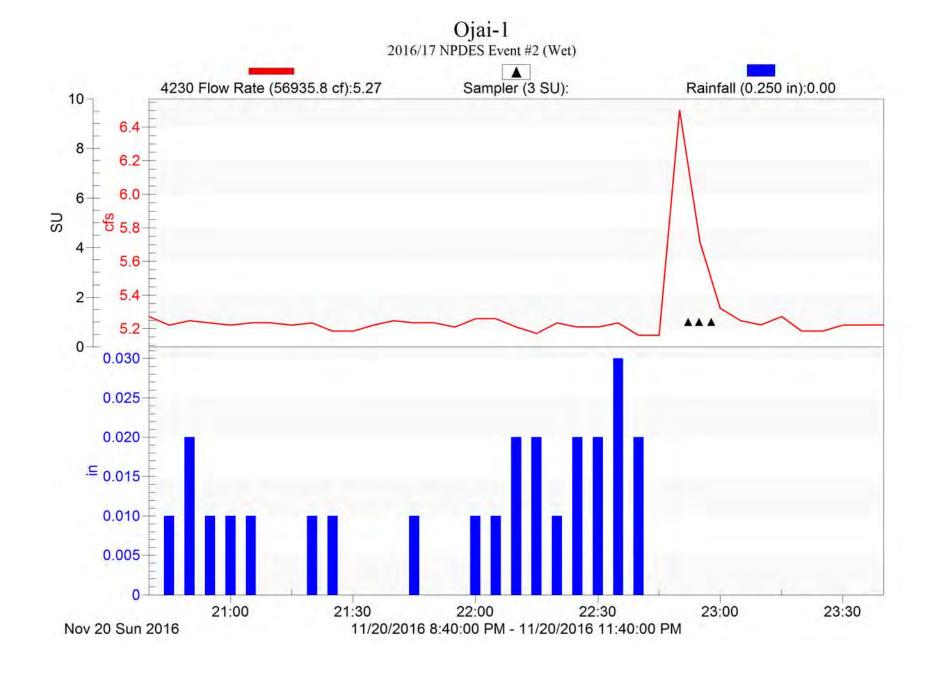






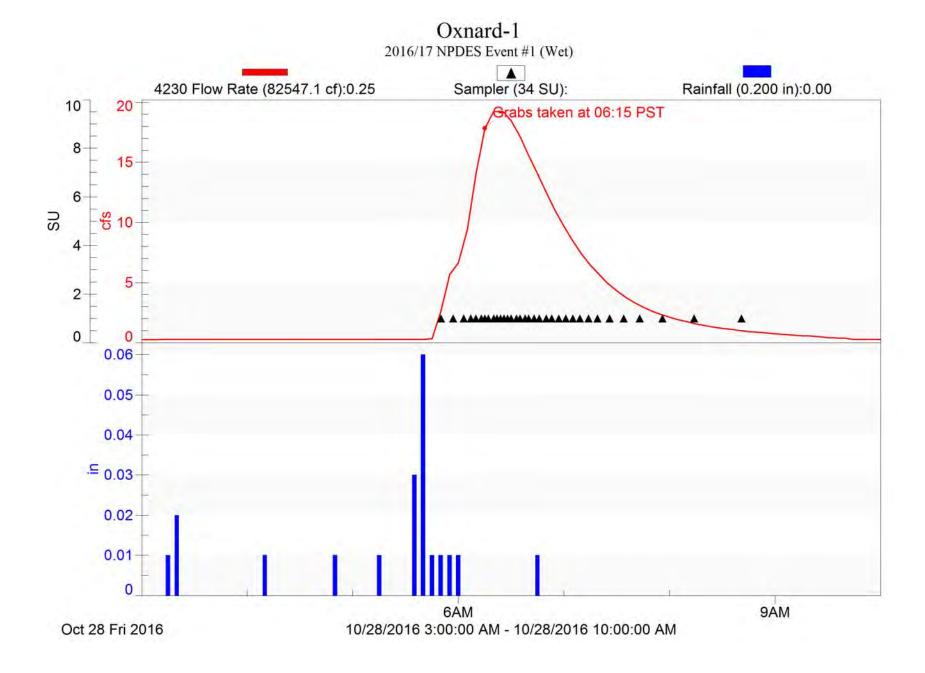
Ojai-1 2016/17 NPDES Event #1 (Wet) First Flush

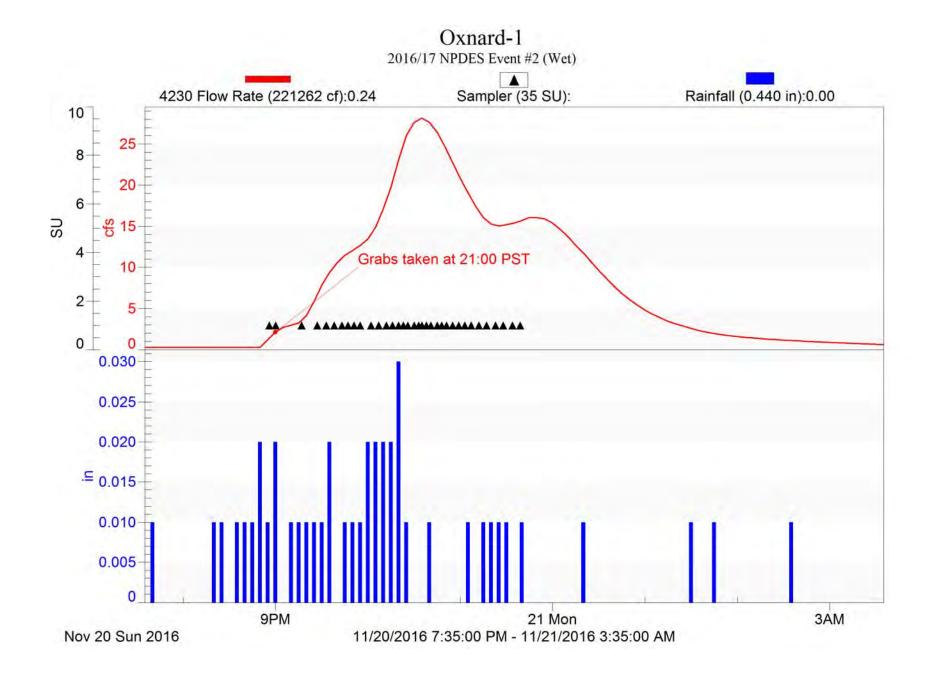


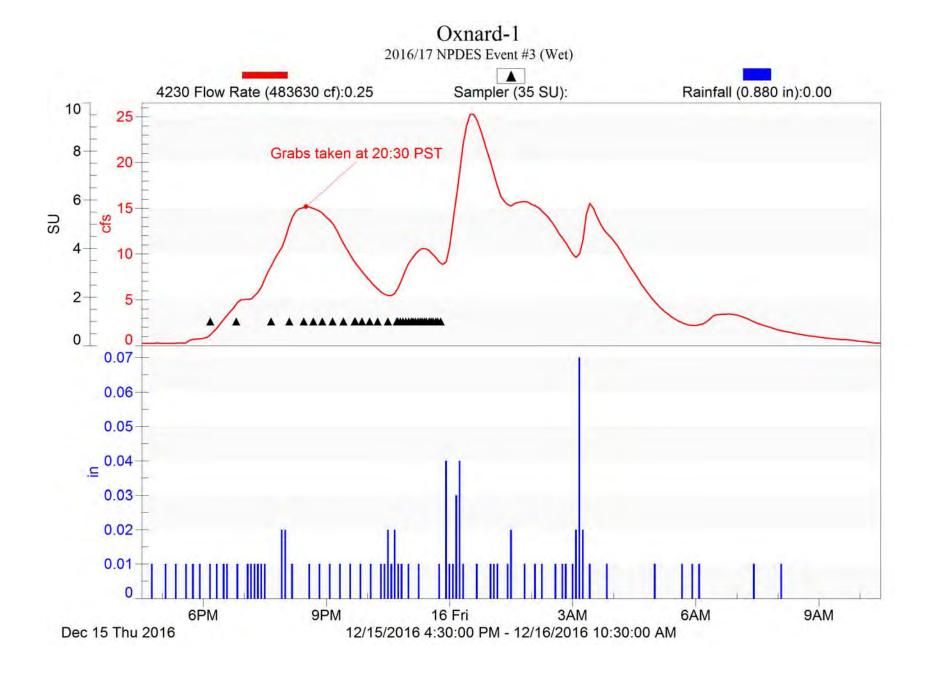


Ojai-1 2016/17 NPDES Event #3 (Wet) Sampler (35 SU): 4230 Flow Rate (546904 cf):5.29 Rainfall (1.930 in):0.00 10 50 8 40 6 S Grabs taken at 20:10 PST S 30 4 20 2 10 0-0.07 0.06 0.05 .⊆ 0.04 0.03 0.02 0.01 6PM 16 Fri 6AM 9PM **3AM** Dec 15 Thu 2016 12/15/2016 4:20:00 PM - 12/16/2016 8:20:00 AM

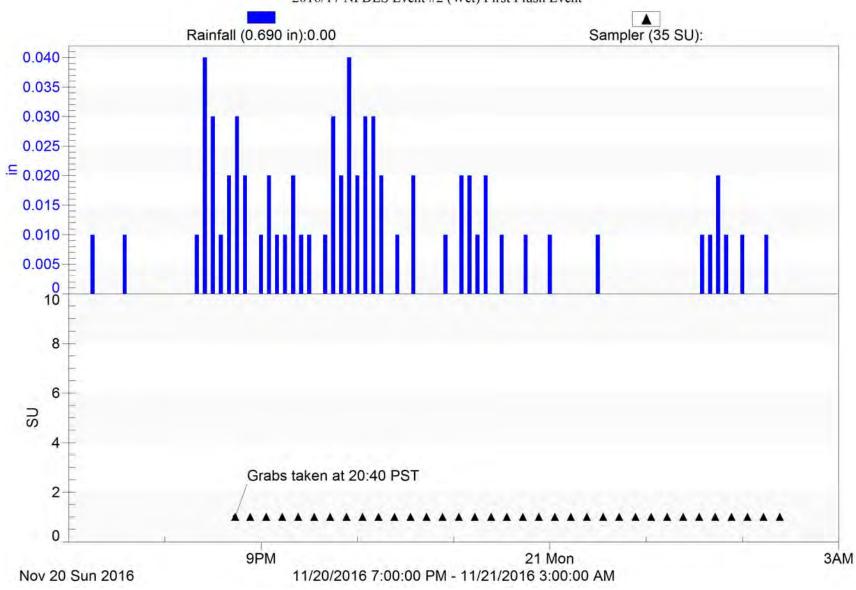
Ojai-1 2016/17 NPDES Event #5 (Wet) 4230 Flow Rate (395405 cf):5.11 Rainfall (0.920 in):0.00 Sampler (35 SU): 10 50 8 Grabs taken at 01:15 PST 40 6 S S 30 4 20 2 10 0 0.030 0.025 0.020 .⊑ 0.015 0.010 0.005 6PM 9PM 19 Thu **3AM** 6AM Jan 18 Wed 2017 1/18/2017 5:00:00 PM - 1/19/2017 6:00:00 AM



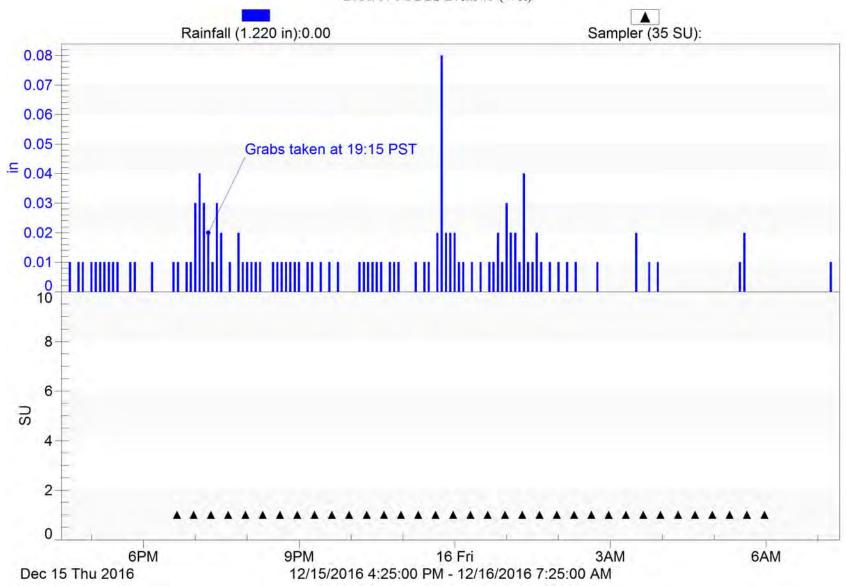




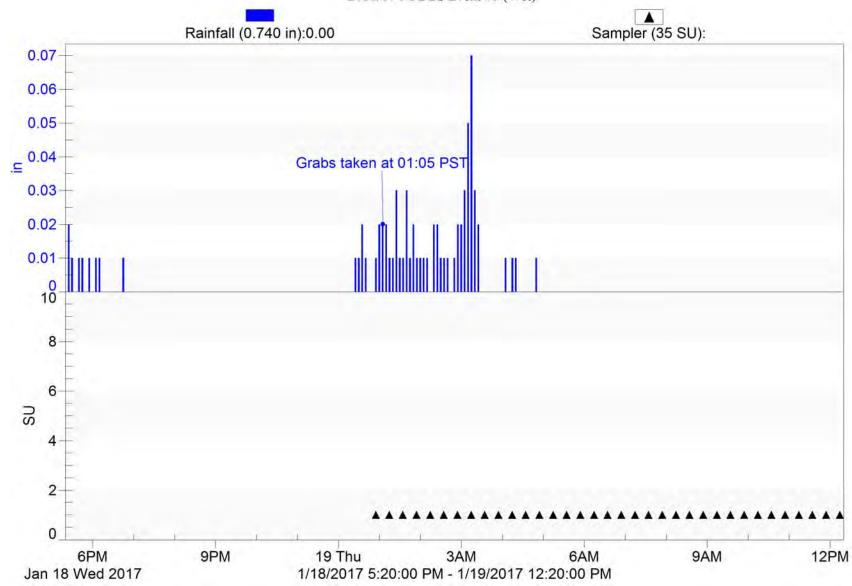
Port Hueneme-1
2016/17 NPDES Event #2 (Wet) First Flush Event

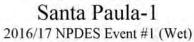


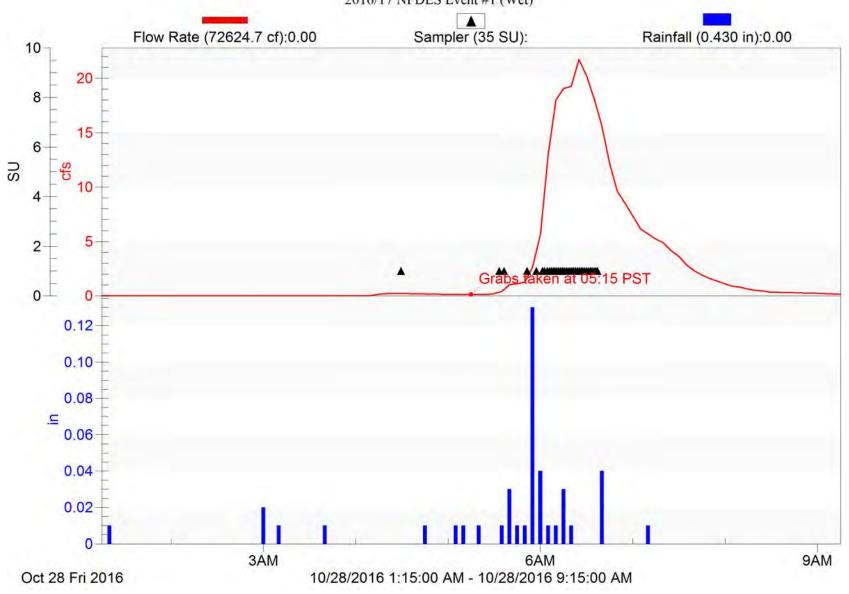
Port Hueneme-1 2016/17 NPDES Event #3 (Wet)

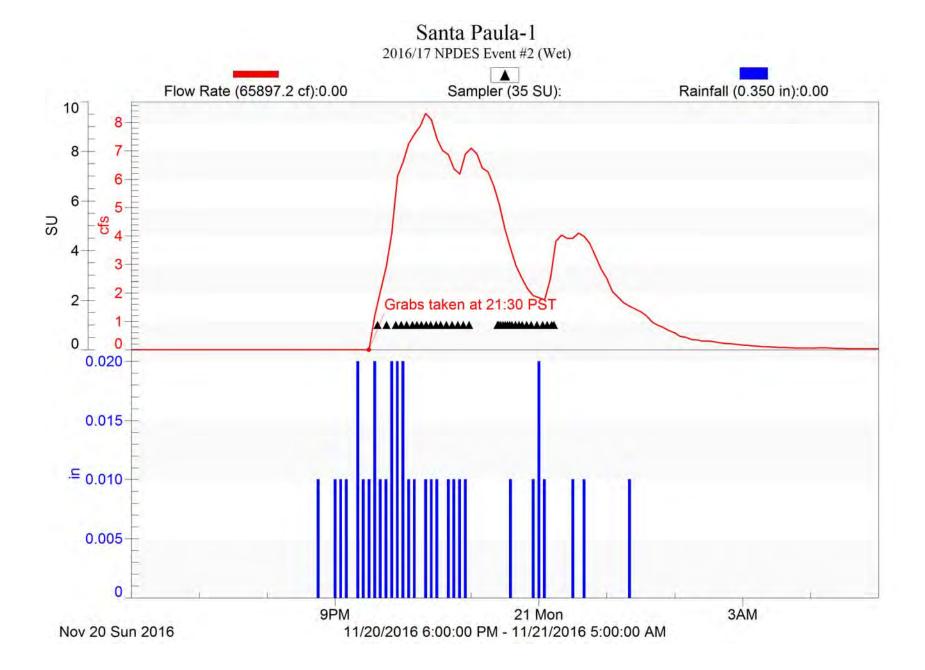


Port Hueneme-1 2016/17 NPDES Event #5 (Wet)

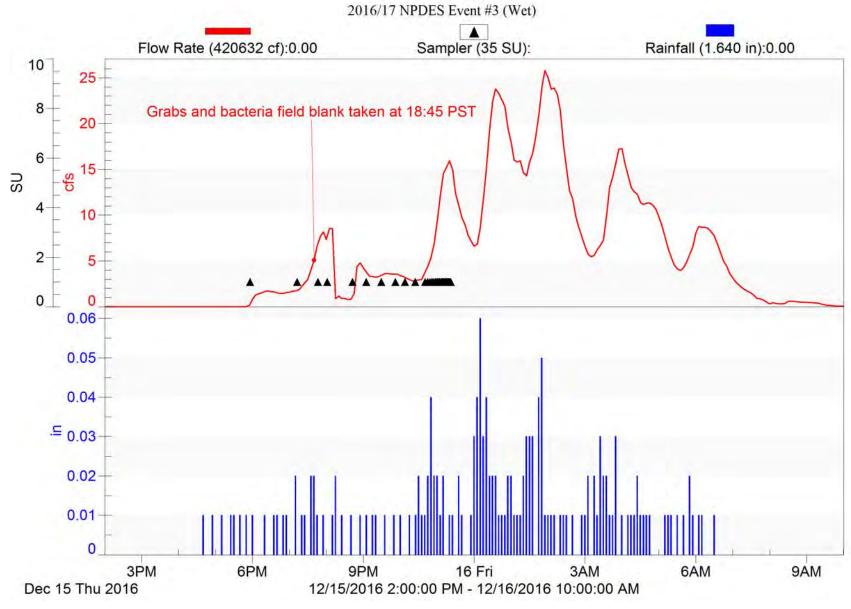


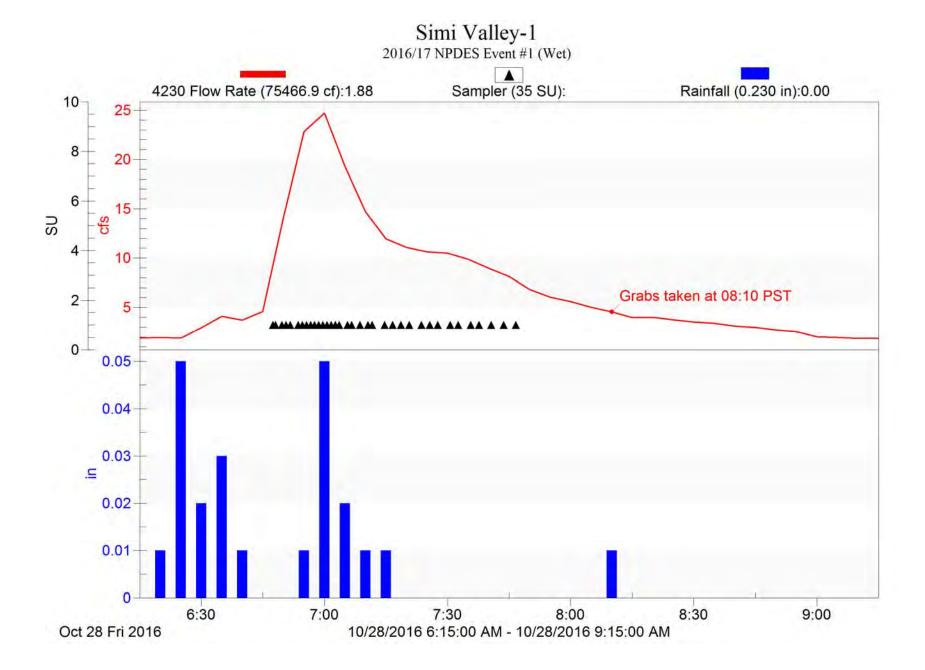


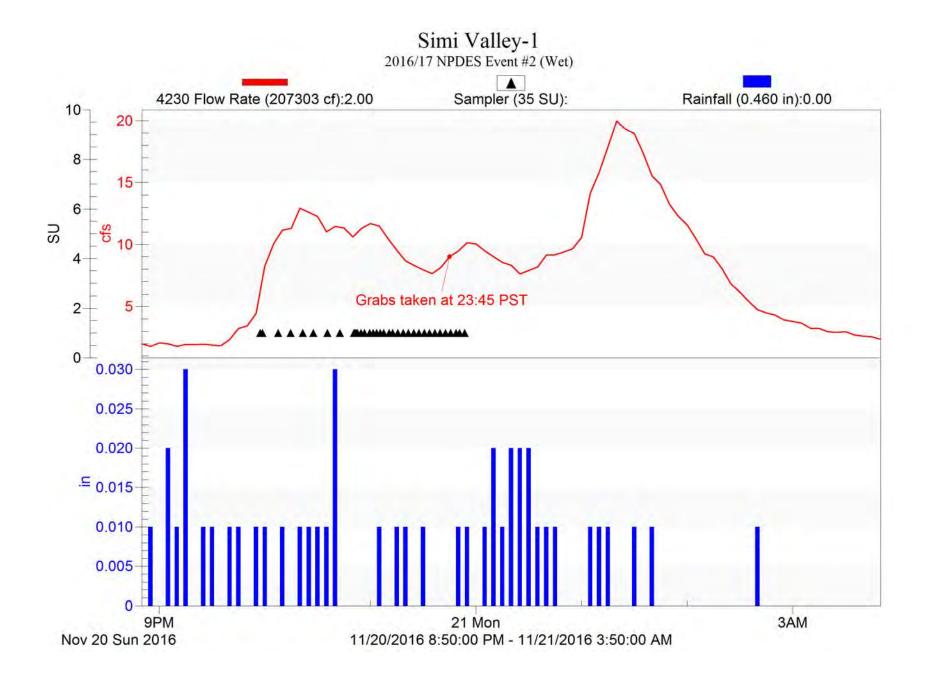




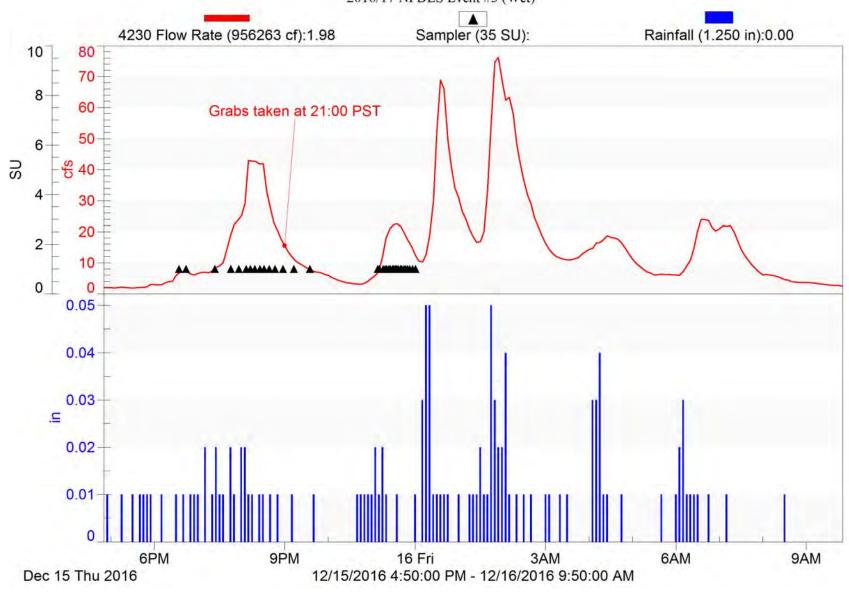


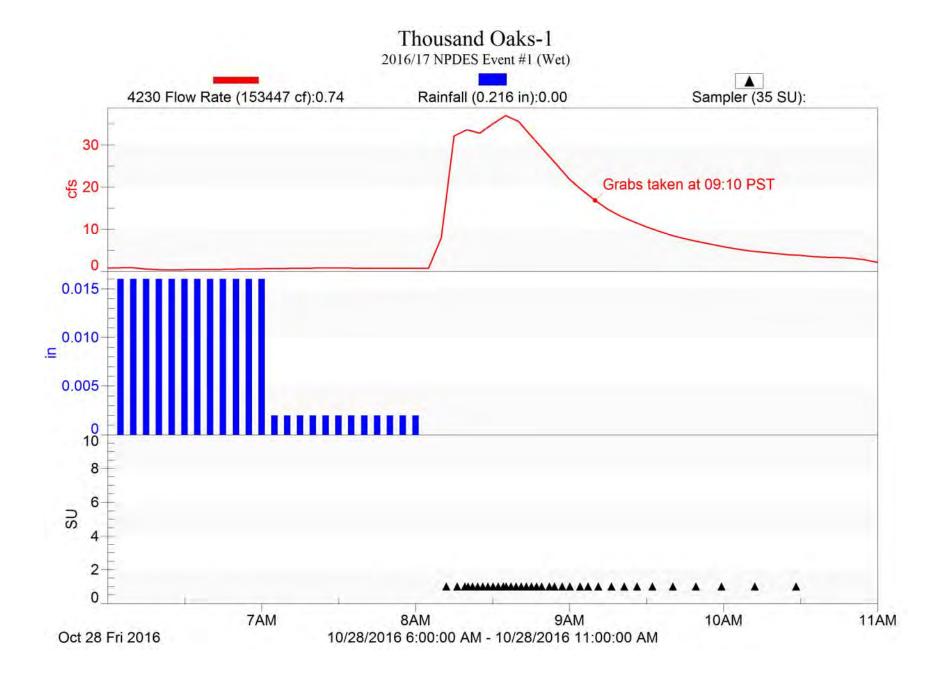


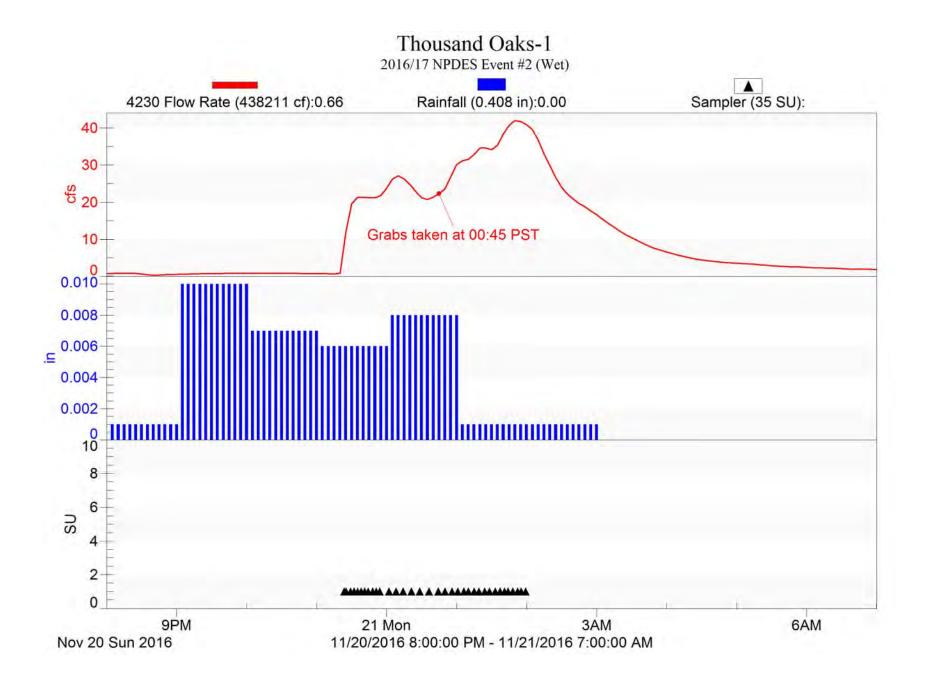




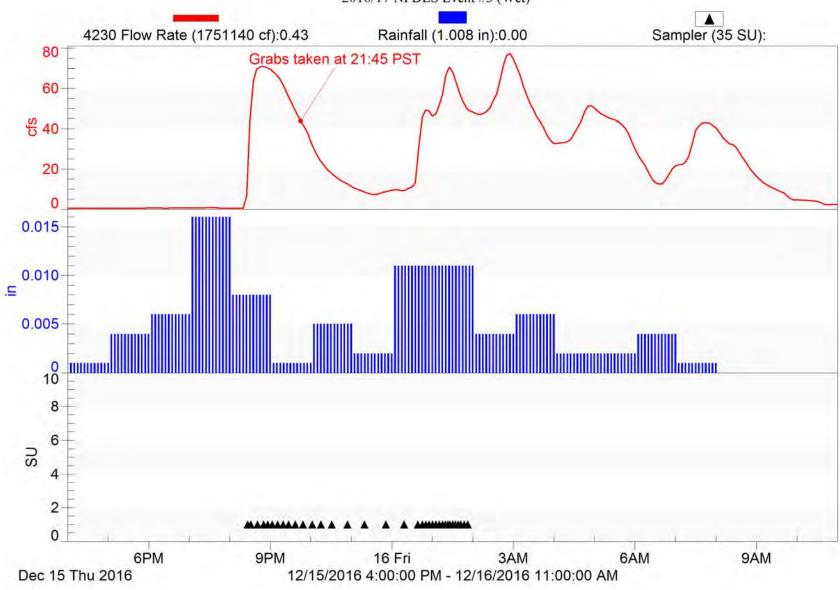
Simi Valley-1 2016/17 NPDES Event #3 (Wet)

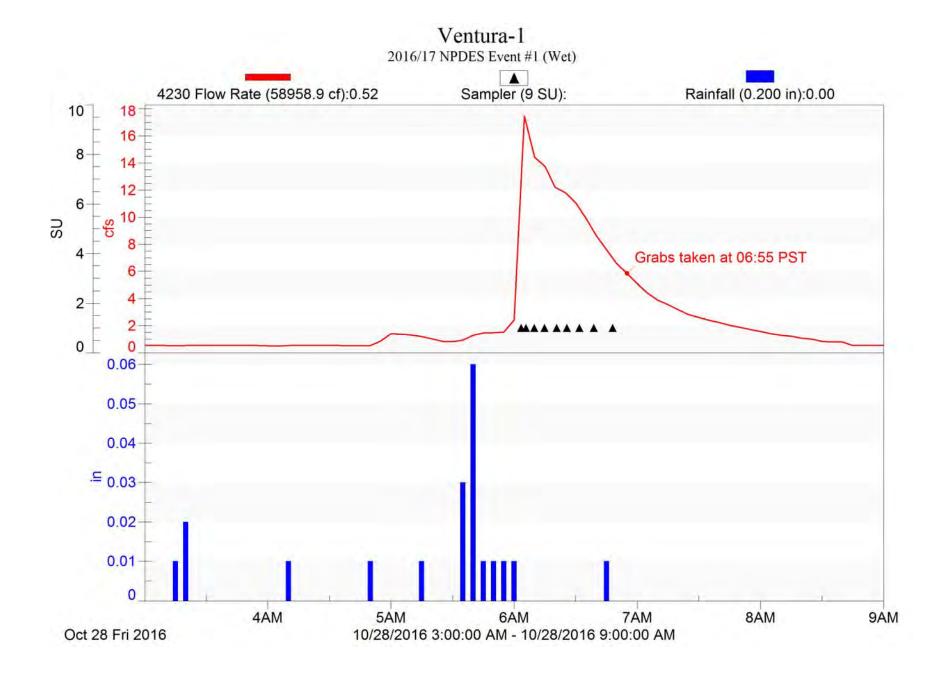


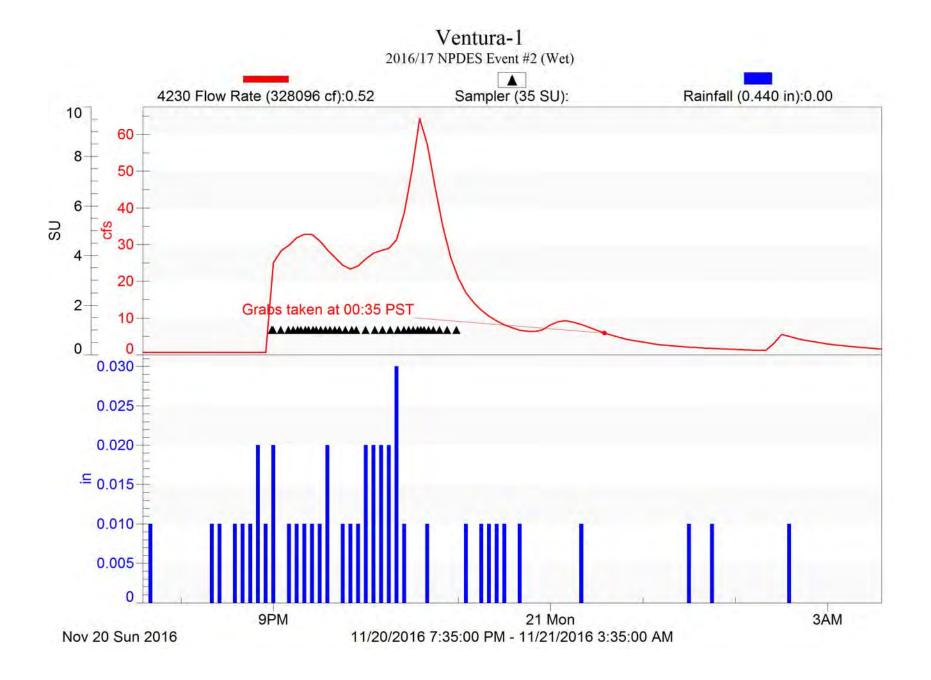


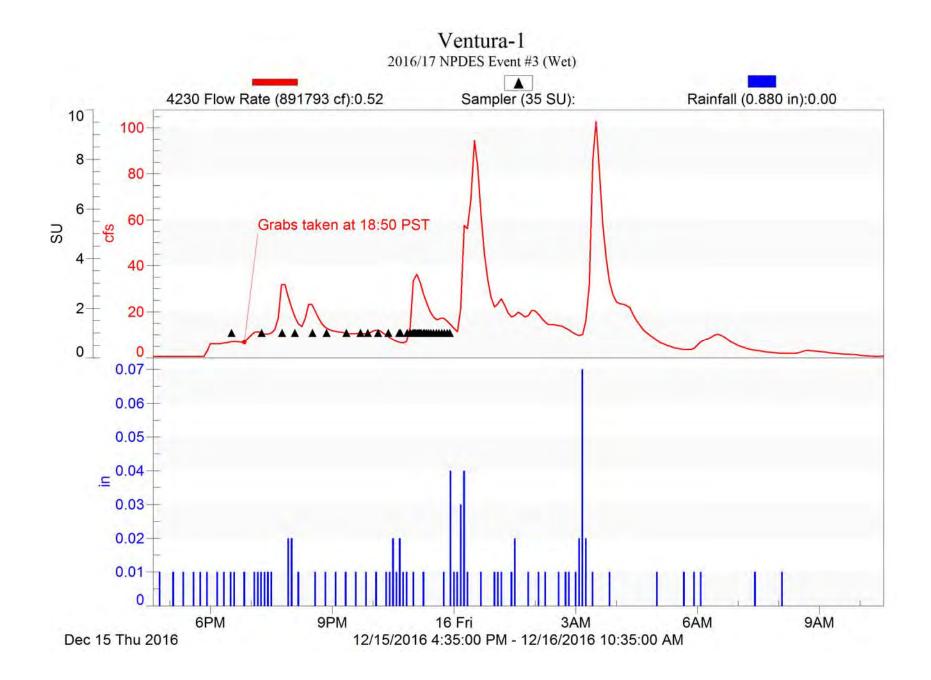


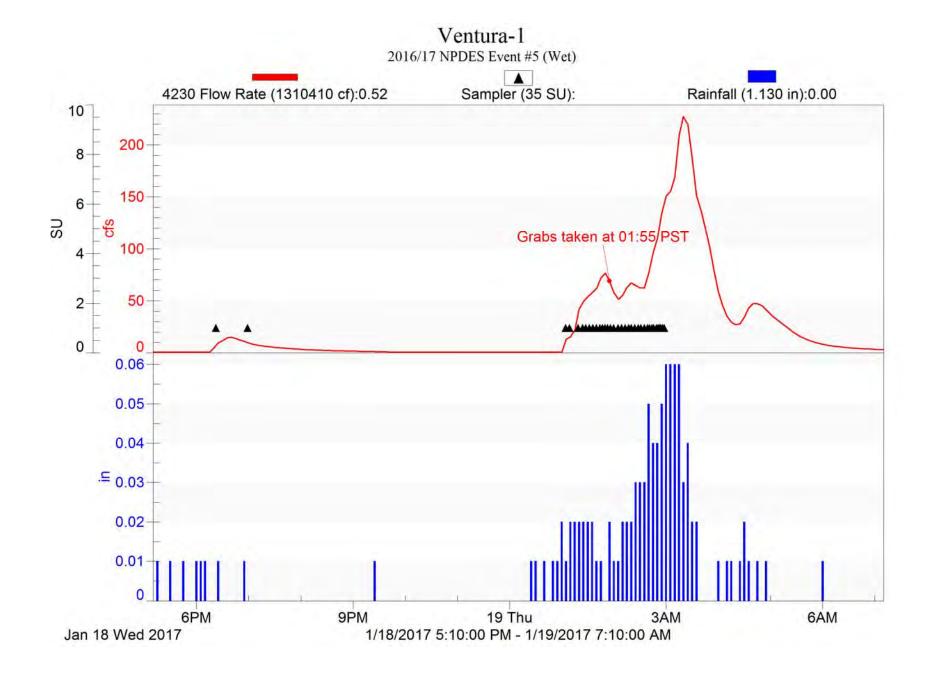
## Thousand Oaks-1 2016/17 NPDES Event #3 (Wet)











Appendix C. NRCS Curve Number Methodology Discussion					
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	Appendix C.	NRCS Curve N	umber Method	lology Discussio	on



# Ventura County Watershed Protection District

Planning & Regulatory Hydrology Section MEMORANDUM

DATE: September 4, 2009 Updated August 12, 2010

TO: Tommy Liddell

VIA: Bruce Rindahl

FROM: Mark Bandurraga

#### **SUBJECT: NPDES Monitoring Site Yield Evaluation**

Per your request, we have used the land use and watershed information you provided to prepare a spreadsheet that can be used to estimate the runoff quantities from storm forecasts. The runoff quantity is estimated using the NRCS Curve Number approach that is a common method in hydrology. The results show that the weighed Curve Numbers estimated from the evaluation range from a low of about 74 for the rural Fox Canyon Drain watershed in Ojai to a high of about 91 for the urbanized watershed in the City of Ventura. The methodology and files used to calculate the Curve Numbers are described in this memo for the watersheds shown in Figures 1-4.

In August 2010 you requested results for another 7 monitoring sites across the county. This memo describes the additional work done for that request.

### **Curve Number Calculation Methodology**

#### Land Use Data

Land Use data used in the study were provided by the Water Quality Section already clipped to the monitoring site boundaries and in a geodatabase. The land use data were extracted from the Assessor's Parcel database which is considered to be current as of the date of extraction (Feb 12, 2009). The various classifications in the file based on the assessor's 4-digit site use codes were sorted and assigned hydrologic land use names associated with the various classifications contained in the Curve Number (CN) Table from the Hydrology Manual (2006) as shown in Table

- 1. The categories in the land use file corresponded well with the land uses in the VCWPD CN Table with the following exceptions:
  - 1. Vacant undifferentiated land was assumed be open brush in fair condition in rural areas and open space with 50% grass cover in urban areas.
  - 2. Mixed urban land uses were assumed to correspond to commercial properties with 50% effective impervious.
  - 3. Fire stations, public buildings, and schools were assigned to the low industrial use category with an effective impervious value of 36% due to the potential for large landscaped areas.

Table 1 Land Uses In NPDES Database (Assessor's Land Uses)

	Land Oses in Mi DEO Dalabase (Assessor's Land	
KVM_CAT1	SHORT_	Name
Agriculture	Abandoned Orchards and Vineyards	Orchard
Agriculture	Horse Ranches	open
Agriculture	Nurseries	Orchard
Agriculture	Orchards and Vineyards	Orchard
Agriculture	Vacant With Limited Improvements	open
Com_Indus. Mix	Mixed Commercial and Industrial	Comm
Commer.	Commercial Recreation	Comm
Commer.	Commercial Storage	Comm
Commer.	Low- to Medium-Rise Major Office Use	comm
Commer.	Modern Strip Development	comm
	Retail Centers (Non-Strip with Contiguous Interconnected	
Commer.	Off-Street Parking)	comm
Extraction	WHOLESALING AND WAREHOUSING	indhigh
Facilitiy	Fire Stations**	indlow
Facilitiy	Government Offices	indlow
Facilitiy	Major Medical Health Care Facilities	comm
Facilitiy	Other Public Facilities	indlow
Facility	Other Special Use Facilities	indlow
Facility	Police and Sheriff Stations**	indlow
Facility	Religious Facilities	indlow
Facility	Special Care Facilities	indlow
Industrial 1	Open Storage	indlow
	Packing Houses and Grain Elevators	
Industrial_1 Industrial 3	-	indlow
_	Manufacturing, Assembly, and Industrial Services	indhigh
No Info Given	Other Open Chase and Regrestion	open
Recreation	Other Open Space and Recreation	open
Res.1	Low Density Single Family Residential	reslow
Res.1	Trailer Parks and Mobile Home Courts, High Density	reshigh
Res.2	Low-Rise Apartments, Condominiums, and Townhouses	reshigh
Res.2	Rural Residential Low Density	resrural
Res.3	High Density Single Family Residential	reshigh
L .	Duplexes, Triplexes, and 2- or 3-Unit Condominiums and	
Res.4	Townhouses	reshigh
Res.4	Medium-Rise Apartments and Condominiums	reshigh
Res.4	Mixed Urban	comm
Schools	Elementary Schools**	indlow
Schools	Junior High Schools**	indlow
Schools	Senior High Schools**	indlow
Transportation	Freeways and Major Roads	paved
Transportation	Mixed Transportation	paved
Transportation	Truck Terminals	paved
Under Constructi	Under Construction	indlow
Utilities	Electrical Power Facilities	indlow
Vacant Undiffere	Vacant Undifferentiated (rural)	brushfair
Vacant Undiffere	Vacant Undifferentiated (city)	open

### Soils Information

The soils information was obtained from the District soils shapefile that groups the soil info into categories 1 through 7 corresponding to the NRCS soil categories D through A, respectively. The soils info was clipped to the watershed boundaries using the watershed shapefile. The areas

obtained from the soils files were checked against the total watershed areas to make sure they were identical.

#### Combined Soils and Land Use Information and Weighted Curve Numbers

The soils and land use shapefiles were then unioned in GIS to obtain the combinations of soil type and land uses in the watersheds. The resulting table was imported into excel and sorted to group the various land uses. The land uses were then assigned a name associated with the data in the District CN Table. Based on the name and soil number, excel functions "match" and "offset" were used to obtain a CN from the CN Table. The weighted soil number and Curve Number for each watershed were calculated using the areas, soil numbers, and CN's. The weighted soil types were checked against the data in the original watershed soil files and were found to be the same. The weighted Curve Numbers were linked to a summary worksheet to be used to calculate the yields by the Water Quality Section. This procedure was also applied to the 7 additional watersheds added to the study in August 2010.

The results are shown in Table 2.

Table 2: Storm Yield Results- Weighted Average Curve Numbers

Watershed Name	Size ac	Compo- site CN	Rain (in)	Initial Abs S (no units)	Rain cutoff (in)	Yield (in)	% Yield
Camarillo	2,779	85.12	5.00	1.75	0.35	3.38	68%
Happy Valley	1,026	77.29	5.00	2.94	0.59	2.65	53%
Fox	749	74.19	5.00	3.48	0.70	2.38	48%
Ventura	707	90.93	5.00	1.00	0.20	3.97	79%
Fillmore	762	74.77	5.00	3.37	0.67	2.43	49%
Port Hueneme	589	85.60	5.00	1.68	0.34	3.43	69%
Moorpark	1,816	63.34	5.00	5.79	1.16	1.53	31%
Oxnard	1,374	84.07	5.00	1.89	0.38	3.28	66%
Simi Valley	3,321	71.04	5.00	4.08	0.82	2.12	42%
Santa Paula	64	80.07	5.00	2.49	0.50	2.90	58%
Thousand Oaks	5,179	81.54	5.00	2.26	0.45	3.04	61%

Between the first request and present, the Hydrology Section has updated their Curve Number tables to make them more consistent with reported infiltration rates in the Hydrology Manual. The resultant CNs were used in the study to see the effect on the yields as shown in Table 3.

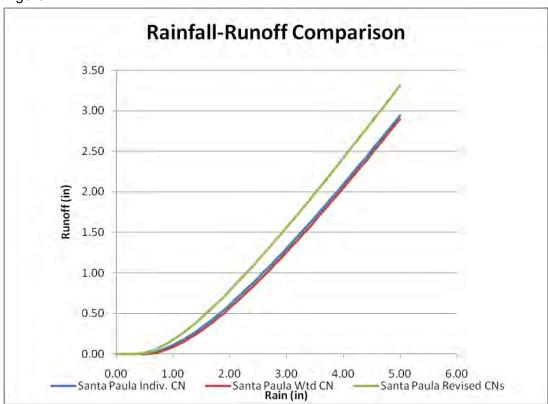
Table 3: Storm Yield Results- Weighted Average Curve Numbers with Updated CNs

	Size	Compo-	Rain	Initial Abs	Rain Cutoff	Yield	
Watershed Name	ac	site CN	(in)	S (no units)	(in)	(in)	% Yield
Camarillo	2,779	84.72	5.00	1.80	0.36	3.34	67%
Happy Valley	1,026	77.22	5.00	2.95	0.59	2.64	53%
Fox	749	73.48	5.00	3.61	0.72	2.32	46%
Ventura	707	91.24	5.00	0.96	0.19	4.01	80%
Fillmore	762	74.39	5.00	3.44	0.69	2.40	48%
Port Hueneme	589	86.14	5.00	1.61	0.32	3.48	70%
Moorpark	1,816	64.63	5.00	5.47	1.09	1.63	33%
Oxnard	1,374	84.01	5.00	1.90	0.38	3.27	65%
Simi Valley	3,321	71.11	5.00	4.06	0.81	2.13	43%
Santa Paula	64	84.22	5.00	1.87	0.37	3.29	66%
Thousand Oaks	5,179	81.27	5.00	2.30	0.46	3.01	60%

The results showed that the revised CNs provided yields that were 1 or 2% higher than the 2006 CN set except for the Santa Paula watershed. This watershed was soil type 6, which had CNs that were more affected by the updates than most of the CNs for the other soils.

While working on the 2<sup>nd</sup> request, it was realized that the Hydrology Section could provide more precise estimates of flow at lower rainfall levels by analyzing each soil/land use combination individually and summing the results rather than using a weighted average CN in the runoff equation. So the individual CN results were calculated and summed for both the 7 sites in this update and the previous 4 sites. The resultant spreadsheets provide tables of runoff vs rainfall data. Figure 1 shows a comparison of the rainfall and runoff from a highly developed watershed Camarillo using the weighted average CN, individual CNs, and revised individual CNs.





#### Conclusions and Limitations

The provided weighted CNs can be used to estimate runoff from low to moderately saturated watersheds. It has been our experience that it is necessary to use Antecedent Moisture Condition III CNs for highly saturated watersheds which only occurs after many days of heavy rainfall such as January 10, 2005. The provided CNs probably will overpredict the runoff coming from the first storms of the season due to the very dry antecedent moisture conditions present then. If necessary further work can be done to provide CNs representing AMC I conditions. Also, the CNs assigned to the various land uses can be calibrated after enough storms have occurred to evaluate the predictive accuracy of the current yield equations provided to the NPDES group. It should also be possible to provide forecasts of runoff from the HSPF forecast model of the Ventura River watershed that more accurate reflect saturated/unsaturated conditions.

### List of Files in Work Directory K:\PR\hydrology\Watersheds\NPDES\Monitoring\_Sites

Filename	Description
GIS	Contains GIS files used in evaluation
GIS2010	Contains 2010 GIS files used in updated evaluation
ClippedLandUse.mdb	Geodatabase with land uses clipped to watershed boundaries
	provided by WQ section
*_SelectedWatershed.shp	shapefiles showing boundaries of monitoring watersheds
*soils.shp	soils shapefiles clipped to watershed boundaries
*soilsunion.shp	Union of soils and land use data shapefile for watersheds
Allsoil.shp	VCWPD soils shapefile showing numbers for hydrology calcs
NPDES_MonitoringSitesR	9-09 CN data
unoff9-09.xls	
NPDES_MonitoringSitesR	8-10 updated analysis for 11 sites total
unoff8-10.xls	
NPDES_MonitoringSitesR	8-10 analysis using revised CNs
unoff8-10RevCNs.xls	
MonitoringSites9-09.mxd	ArcMap project file for analysis

### Ventura Watershed



Figure 2

### Meiners Oaks Happy Valley Watershed



Figure 3

### Ojai Fox Watershed

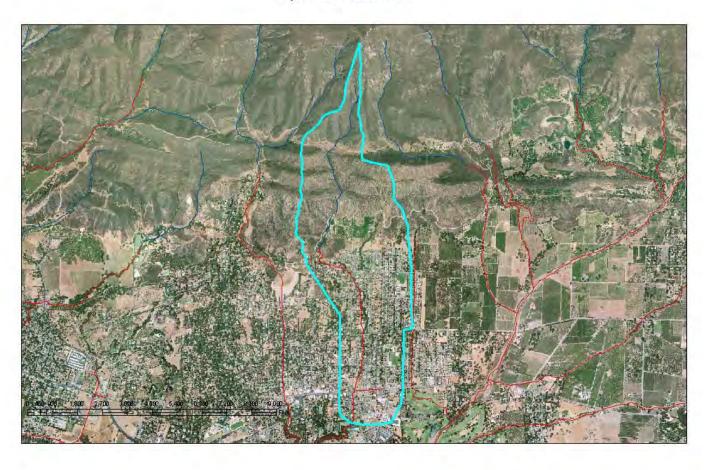


Figure 4

### Camarillo Hills Drain Watershed



Figure 5

### Simi Valley Watershed

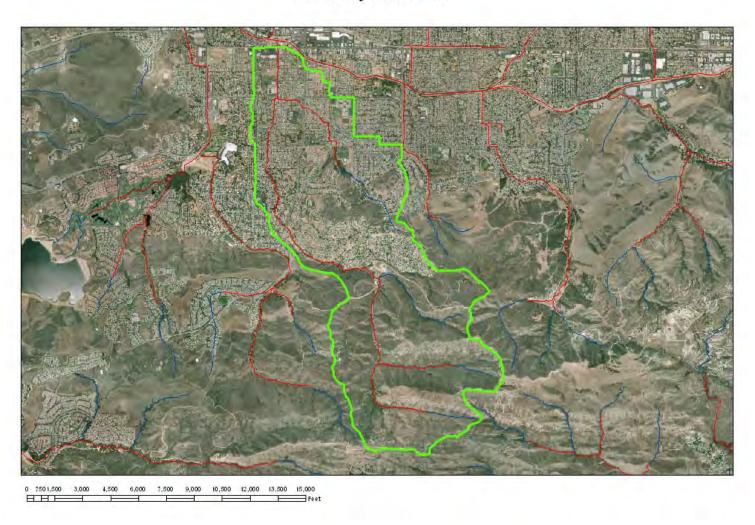


Figure 6

### Oxnard Watershed

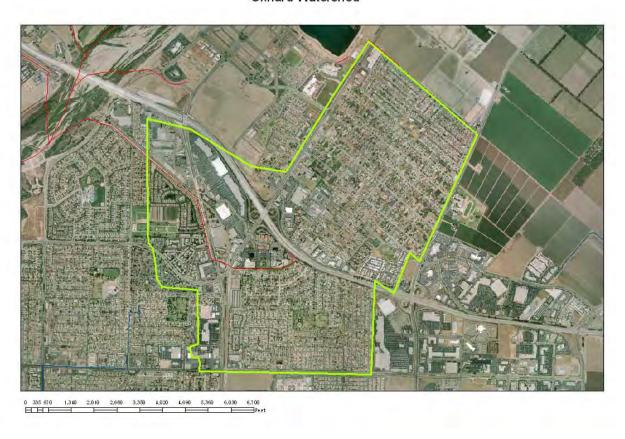


Figure 7

### Moorpark Watershed



Figure 8

### Port Hueneme Watershed



Figure 9

### Fillmore Watershed

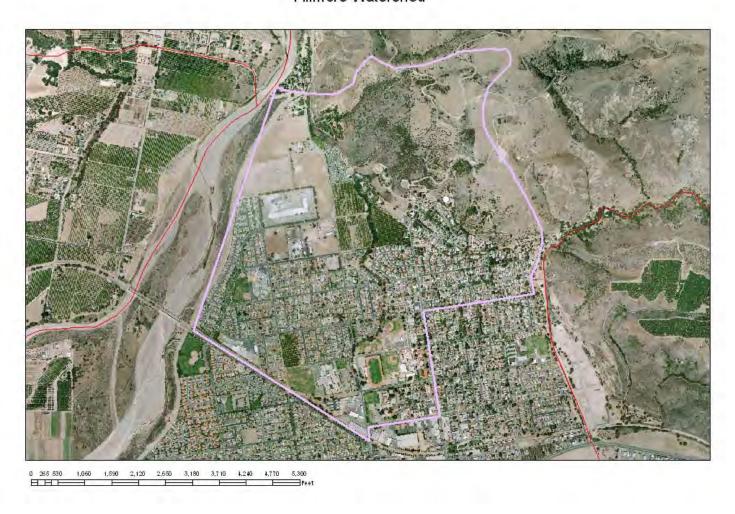


Figure 10

### Thousand Oaks Watershed

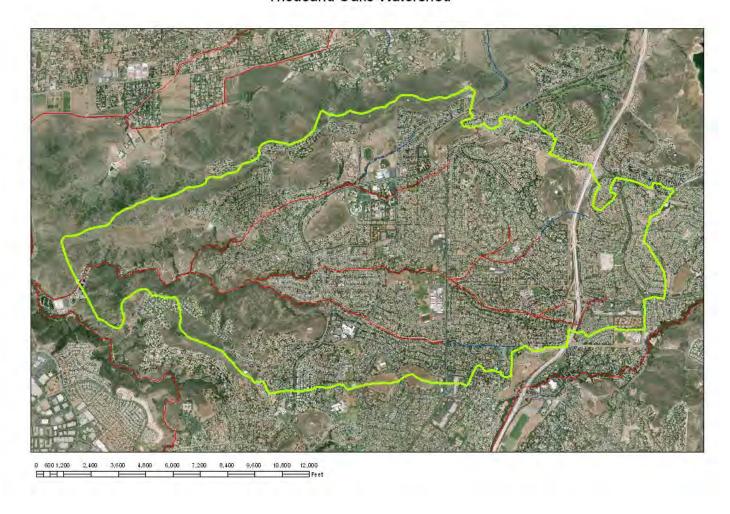


Figure 11

### Santa Paula Watershed



Figure 12

Appendix D. Event Summaries

							Flowmeter							Comp bottle	Comp Duration				
					Arrival	PST/	Level	Flowmeter	Outside	Fridge T		Pump		status/	(nearest	Comp	Grab	Toxicity	<u>.</u>
<u>Site</u>	Event	Visit	Staff	<u>Date</u>	<u>Time</u>	PDT	(feet)	Flow (cfs)	Staff (ft)	<u>°C</u>	Flush (L)	Count	Program/6712 Display Flow: 1 pulse/500mlx35, program	Estimated Vol (L)	half hrs)	Time	Time	Time	<u>Notes</u>
ME-CC	1	1	KH	10/26/2016	1040	PDT	1.055	5	~1.06	0	4L Distilled	266,044	disabled	Bottle in, lid off.					
ME-CC	1	2	TL,DW	10/28/2016	0853	PDT	1.119	8	1.1	5			Program disabled				0900	0900	
ME-CC	1	3	SG	10/29/2016	0932	PDT	1.207	21	1.2	0	2L Distilled	344,528	Sample 8 after 1 pulse	30% full		1000			Limited volume!
													Flow: 1 pulse/500mlx35, program	n					
ME-VR2	1	1	WBC	10/26/2016	1240	PDT	1.806	1		3	4L Distilled	52,899	disabled	Bottle in, lid off.					
ME-VR2	1	2	LM,SG	10/28/2016		PDT	1.852	1	1.85	1			Program disabled	Empty			720	720	
ME-VR2	1	3	SG	10/29/2016	0738	PDT	1.843	1			2L Distilled	389,814	Program done.	18.5L		0742			
													Time: 10 min/500mlx35, program						
ME-SCR	1	1	DRY			PDT					2L Distilled		disabled	Bottle in, lid off.					
													Sample 26 in 1 min. Stopped						
ME-SCR	1	2	DRY			PDT							program	Almost full					
ME-SCR	1	3	DRY			PDT					2L Distilled		Stopped 51 / 500 1 25	18L					
				10/25/2015			0.404	_		0	41.51.111.1		Flow: 1 pulse/500mlx35, program						
MO-OJA	1	1	WBC	10/26/2016		PDT	0.104	5 5	-	0	4L Distilled		disabled	Bottle in, lid off.			0450	0450	
MO-OJA MO-OJA	1	2	LM,SG LM,SG	10/28/2016 10/28/2016		PDT PDT	0.101	5	0	2 0	31 Distilled	105 422	Program disabled Program done.	Empty 85% full		0045	0450	0450	
IVIO-OJA	1	3	LIVI,3G	10/28/2016	0845	PDI	0.101	3			2L Distilled	105,433				0845			
140 145			WDC	10/25/2015	1200	DDT	0.003		0	Turned	At Diskills d	20.462	Flow: 1 pulse/500mlx35, program disabled						Chalked barrel
MO-MEI MO-MEI	1	1	WBC	10/26/2016 10/28/2016		PDT PDT	0.082	1 1	0	on 2	4L Distilled	20,462	Program disabled	Bottle in, lid off. 3/4 full			٥٢٢٢	0555	Chaiked barrei
MO-MEI	1	2	LM,SG LM.SG	10/28/2016		PDT	0.08 0.081	1	U	0	2L Distilled	104,478	Program done.	80% full		0915	0555	0555	
IVIO-IVIEI	1	3	LIVI,3G	10/28/2010	0914	PDI	0.061	1		-	2L Distilled	104,476	Time: 5 min/500mlx35, program	0070 1011		0913			
MO-FIL	1	1	WBC	10/26/2016	1250	PDT	0.259			4	2L Distilled		disabled	Bottle in, lid off.					
MO-FIL	1	2	WBC,SC	10/28/2016		PDT	0.239	-		2	2L Distilled	-	Sample 5 in 20 sec.	2L			0700	0700	
MO-FIL	1	3	LM,SG	10/28/2016		PDT	0.364			1.5	2L Distilled	194,642	Program done.	85% full		1318	0700	0700	
IVIO I IL			LIVI,50	10/20/2010	1310	101	0.304			1.0	ZE Distilled	134,042	Flow: 1 pulse/500mlx35, program			1310			
MO-OXN	1	1	KH	10/27/2016	1255	PDT	0.109	0.2	No flow	0	4L Distilled	28,115	disabled	Bottle in, lid off.					
MO-OXN	1	2		10/28/2016		PDT	0.475	5.9	0.5	4	4E Distilled	20,113	Sample 2 after 1 pulse	0.5			0715	0715	
MO-OXN	1	3	TL,DW	10/28/2016		PDT	0.157	0.6	0.5	4	2L Distilled	154,973	Program disabled	17.5L		1020	0,15	0,15	
				., .,						Turned		,	Flow: 1 pulse/500mlx35, program						
MO-CAM	1	1	KH	10/26/2016	1020	PDT	0.033	10	<<0.033	on	4L Distilled	26,897	disabled	Bottle in, lid off.					
													Insufficient rain for site. Dumped						
MO-CAM	1	2	TL,DW	10/28/2016	0936	PDT	0.034	10			2L Distilled		sample.	dumped					Non-qualifying event
									<channel< td=""><td></td><td></td><td></td><td>Flow: 1 pulse/500mlx35, program</td><td>n</td><td></td><td></td><td></td><td></td><td></td></channel<>				Flow: 1 pulse/500mlx35, program	n					
MO-SIM	1	1	KH	10/26/2016	1215	PDT	0.137	2	toe	4	4L Distilled	63,500	disabled	Bottle in, lid off.					6712 time in PDT so updated back to PST
MO-SIM	1	2	WBC,SC	10/28/2016	0902	PDT	0.216	5		0	2L Distilled		Program done.	16L		0925	0910	0910	
									< <channel< td=""><td></td><td></td><td></td><td>Flow: 1 pulse/500mlx35, program</td><td></td><td></td><td></td><td></td><td></td><td></td></channel<>				Flow: 1 pulse/500mlx35, program						
MO-MPK	1	1	KH	10/26/2016		PDT	0.077	0.2	toe	4	4L Distilled	80,388	disabled	Bottle in, lid off.					6712 time in PDT so updated back to PST
MO-MPK	1	2	WBC,SC	10/28/2016	0804	PDT	0.214	3.8		2	2L Distilled		Program done.	NR		0830	0815	0815	
MO-MPK	1	3				PDT					2L Distilled		Program done.	18L					
										_			Flow: 1 pulse/500mlx35, program						
MO-THO	1	1	KH	10/26/2016		PDT	2.027	0		3	4L Distilled	28,854	disabled	Bottle in, lid off.			40:-	40.5	
MO-THO	1	2		10/28/2016		PDT	2.882	28		4			Sample 20 after 1 pulse	9L			1010	1010	
MO-THO	1	3	SG	10/29/2016	0849	PDT	1.986	0		0	2L Distilled	187,199	Program done.	18.5L		0852			
	_		MES	10/20/2017	4245	DC-	N/S			Turned	AL Discours	47.070	Flow: 1 pulse/500mlx35, program						
MO-VEN	1	1	WBC	10/26/2016		PDT	NR 0.227	8	0.34	on 0	4L Distilled	17,978	disabled	Bottle in, lid off.			0755	0755	Field Duns at 07FF
MO-VEN	1	2	TL,DW	10/28/2016	0745	PDT	0.227	δ	0.21	U			Sample 9 after 1 pulse	4L			0755	0755	Field Dups at 0755
																			Fridge too cold, partially freezing sample
NAO VENI	1	3	TI DW/	10/20/2016	1140	DDT	0.41	1		0	21 Distilled	40 550	Errors have ocurred	4.5L		1240			surface. Limited volume! Priority list.
MO-VEN	1	э	TL,DW	10/28/2016	1140	ועז	0.41	1			2L Distilled	49,550	Time: 6 min/500mlx35, program			1240			Sander Elimited Volume: Fillotity list.
MO HITE	1	1	KH	10/27/2016	1205	PDT				0	4L Distilled	25,142	disabled	Bottle in, lid off.					
MO-HUE	1	1	KIT	10/2//2010	1203	וטי	-	-	-	J	ייר הייז וווופת	43,144	disabled	bottle III, IIU UII.					
MO-HUE	1	2	LM,SG	10/28/2016	1045	PDT	_	_	_	1			Program disabled	Empty					Capped bottle. Insufficient rain to qualify.
	_	-	,50	_0, _0, _010	1040					-			6. 4 4.5454	pc1					a social insumment rum to quality.
													Flow: 1 pulse/500mlx35, program	n					
MO-SPA	1	1	WBC	10/26/2016	1426	PDT			Dry	0	4L Distilled	59,979	disabled	Bottle in, lid off.					
	-	-		.,,					,	-		,	· · · · · <del></del>						

MO-SPA	1	2	WBC,SC 10/28/2016 0615 PDT	Flowing 2	Sample 3 after 1 pulse 1.5L	0615 0615	I
					Sample 35 after 1 pulse. Stopped		
MO-SPA	1	3	LM,SG 10/28/2016 1255 PDT	Trickle flow 1 2L Distilled	program 85% full	1255	

NR: Not recorded

All times are recorded here in PDT

Forecast Rain: 0.25"

Actual Rainfall: 0.1-0.5" across the county

Storm Control: Kelly Hahs

#### Sample Tracking:

Bacteria samples to VCHCA:

10/28/16 @ 10:55 (SPA/FIL/SIM/MPK/THO) by Sean Casey 10/28/16 @ 10:00 (CC/OXN/VEN/FD-1) by Tommy Liddel

10/28/16 @ 10:17 (VR2/OJA/MEI) by Lara Meeker

Toxicity samples to ABC:

10/28/16 @ 12:10 (SPA/FIL/SIM/MPK/THO) by Sean Casey

10/28/16 @ 10:55 (CC/OXN/VEN) by Tommy Liddel

10/28/16 @ 09:47 (VR2/OJA/MEI) by Lara Meeker

Grab and composite samples to Weck Laboratories, Inc. by Weck-provided courier

10/28/16 @ 15:35 (All grabs and composites except SCR/CAM (not sampled) and CC/VR2/THO composites) by Steven S. Greer to Hector S. (Courier Service

10/29/16 @ 11:20 (CC/VR2/THO composites) by Bill Carey to Hector S. (Courier Service

MO-VEN and MO-OXN grab and composite sample times were incorrectly recorded as PST not PDT. Error was noticed and labs were notified to update their records on 11/30/2016

-2 -1 -1 0	-1.667 -1.111 -0.556
-1 0	-0.556
0	
	Ω
	J
1	0.556
1	1.111
2	1.667
2	2.222
3	2.778
3	3.333
4	3.889
4	4.444
5	5.000
6	5.556
6	6.111
7	6.667
7	7.222
	2 2 3 3 4 4 5 6 6

Site ME-CC ME-CC	Event 2 2	1 2	Staff KH AA,DW	<u>Date</u> 11/18/2016 11/20/2016	2310	PST PST	Flowmeter Level (feet)  1.026 1.112	Flowmeter Flow (cfs)	1.02	Fridge T °C 3 2	Flush (L) 4L Distilled	Pump Count 356,797	Program/6712 Display Flow: 1 pulse/500mlx35, progran disabled Program disabled	Bottle in, lid off. Empty	Comp Duration (nearest half hrs)	<u>Time</u>		Toxicity Time	<u>Notes</u>
ME-CC	2	3	KH,SC	11/21/2016	1035	PST	1.846	264	~1.82	1	2L Distilled	735,685	Program done.	20L		1035			
ME-VR2 ME-VR2 ME-VR2	2 2 2	1 2 3	SG LM,SG SG	11/18/2016 11/20/2016 11/21/2016	2325	PST PST PST	1.794 1.98 1.91	1 3 1	1.95 1.95	2 3 0	4L Distilled 4L Distilled	11,448 704,379	Flow: 1 pulse/500mlx35, program disabled Sample 3 after 1 pulse Sample 32 after 1 pulse	Bottle in, lid off. Couple inches 18.5L		1052	2340		Replace pump tubing!
ME-SCR	2	1	DRY			PST					2L Distilled		Time: 10 min/500mlx35, program disabled Sample 26 in 1 min. Stopped	Bottle in, lid off.					
ME-SCR ME-SCR	2 2	2	DRY DRY			PST PST					2L Distilled		program Stopped	Almost full 18L					
MO-OJA MO-OJA	2 2 2	1 2 3	SG LM,SG SG	11/18/2016 11/20/2016 11/21/2016	2105	PST PST PST	0.101 0.101 0.1	5 5 5	0 0 0	2 2 4	4L Distilled 4L Distilled	5,419 122,397	Flow: 1 pulse/500mlx35, program disabled Program disabled Program disabled	Bottle in, lid off. Empty ~1.5L		0928	2105		Very limited volume - priority list
MO-MEI	2	1	SG	11/18/2016			0.081	1	0	0	4L Distilled	4,181	Flow: 1 pulse/500mlx35, program disabled	Bottle in, lid off.					Had to wait for flow to be deep enough to
MO-MEI MO-MEI	2	2 3	LM,SG SG	11/20/2016 11/21/2016		PST PST	0.081 0.081	1 1	0	1 0	4L Distilled	157,524	Sample 15 after 1 pulse Program disabled	Empty 40% full		0958	2225		take grabs Limited volume - priority list
MO-FIL MO-FIL	2 2	1 2	KH WBC,BM	11/18/2016 11/20/2016		PST PST	0.043 0.368	-		3 2	4L Distilled	204,053	Time: 10 min/500mlx35, program disabled Sample 4 in 7 min.	Bottle in, lid off.			2215		Samples 33-35 (03:11-03:31) No More
MO-FIL	2	3	KH,SC	11/21/2016	0900	PST	0.044	-		1	2L Distilled	363,989	Program done, errors occurred. Flow: 1 pulse/500mlx35, program	15L		0900			Liquid.
MO-OXN MO-OXN MO-OXN	2 2 2	1 2 3	SG AA,DW LM,DW	11/18/2016 11/20/2016 11/21/2016	2045	PST PST PST	0.108 0.109 0.108	0.2 0.2 0.2		0 0.5 3	4L Distilled 2L Distilled	4,980 291,015	disabled Program disabled Program done.	Bottle in, lid off.		1000	2100		Light in house not working Tubing inside fridge needs changed.
MO-CAM MO-CAM MO-CAM	2 2 2	1 2 3	KH AA,DW	11/18/2016 11/20/2016 11/21/2016	1330 2130	PST PST PST	0.033 0.035 0.035	10 10 10	Channel mostly dry	Turned on -6 2	4L Distilled 2L Distilled	111,629	Flow: 1 pulse/500mlx35, program disabled Program disabled Program done			0845	2145	2145	
MO-SIM MO-SIM	2 2	1 2	KH WBC,BM	11/18/2016 11/20/2016		PST PST	0.139 0.271	2 9	<channel toe</channel 	0 4	4L Distilled 2L Distilled	144,600	Flow: 1 pulse/500mlx35, program disabled Sample 32 in 3 min	n Bottle in, lid off. 15L		0004	2345		Composite pulled 11/21/16
MO-MPK MO-MPK	2 2	1 2	KH WBC,BM	11/18/2016 11/20/2016		PST PST	0.0671 0.152	0.1 1.8	center of channel damp	2 4	4L Distilled	228,205	Flow: 1 pulse/500mlx35, program disabled Sample 5 after 1 pulse	n Bottle in, lid off. 2L			2300		
MO-MPK	2	3	KH,SC	11/21/2016	0935	PST	0.072	0.2	<bubbler< td=""><td>2</td><td>2L Distilled</td><td></td><td>Program done, Errors occurred</td><td>16L</td><td></td><td>0935</td><td></td><td></td><td>Sample 30 @ 00:41 - No more liquid.</td></bubbler<>	2	2L Distilled		Program done, Errors occurred	16L		0935			Sample 30 @ 00:41 - No more liquid.
MO-THO MO-THO MO-THO	2 2 2	1 2 3		11/18/2016 11/21/2016 11/21/2016	0045	PST PST PST	2.033 2.771 2.099	0 21 1		0 4 2	4L Distilled 2L Distilled	198,787 358,911	Flow: 1 pulse/500mlx35, program disabled Sample 17 after 1 pulse Program done	Bottle in, lid off. 50% 18L		1000	0045		
MO-VEN MO-VEN	2 2	1 2	SG LM,SG	11/18/2016 11/21/2016		PST PST	0.041 0.235	1 8		Turned on 15	4L Distilled 2L Distilled	5,497 148,659	Flow: 1 pulse/500mlx35, program disabled Program done	Bottle in, lid off. 18.5L		0025	0035		
MO-HUE MO-HUE MO-HUE	2 2 2	1 2 3	,	11/18/2016 11/20/2016 11/21/2016	2220	PST PST PST	-	-	-	6 2 1	4L Distilled 2L Distilled	4,776 192,406	Time: 10 min/500mlx35, program disabled Sample 13 in 8 min Program done.	Bottle in, lid off. 25% 18.5L		0920	2240	2240	Salinity >2ppt so add topsmelt for tox

													Flow: 1 pulse/500mlx35, program	n		
MO-SP	2	1	KH	11/18/2016	0956	PST	-	-	Dry	-1	4L Distilled	214,068	disabled	Bottle in, lid off.		
MO-SP	A 2	2	WBC,BM	11/20/2016	2100	PST	-	-	Flowing	2			Sample 3 after 1 pulse	1L	2130	Bacteria field blank collected at MO-SPA.
																Might be non-qual event (0.12" at #245).
MO-SP	A 2	3	KH,SC	11/21/2016	0840	PST	-	-	No flow	2	2L Distilled	366,067	Program done.	14L	0840	Check after hydros download gauge.

NR: Not recorded

All times are recorded here in PST

Forecast Rain: 0.5-1.5"

Actual Rainfall: 0.25" - 0.67" at most sites across the county

Storm Control: Kelly Hahs

#### Sample Tracking:

Bacteria samples to VCHCA:

11/21/16 @ 01:30 (SPA/FIL/SIM/MPK/THO+FB) by WB Carey

11/21/16 @ 00:05 (CC/CAM/OXN/HUE) by Arne Anselm

11/21/16 @ 01:20 (VR2/OJA/MEI/VEN) by Steven (Scott) Gree

Toxicity samples to ABC:

11/21/16 @ 08:42 (CAM/HUE) by Steven (Scott) Greer

Grab and composite samples to Weck Laboratories, Inc. by Weck-provided courier 11/21/16 @ 13:45 (All sites, grabs and composites) by Kelly Hahs to Austin Sy (Courier

Deg F	Deg C	Deg C
29	-2	-1.667
30	-1	-1.111
31	-1	-0.556
32	0	0
33	1	0.556
34	1	1.111
35	2	1.667
36	2	2.222
37	3	2.778
38	3	3.333
39	4	3.889
40	4	4.444
41	5	5.000
42	6	5.556
43	6	6.111
44	7	6.667
45	7	7.222

<u>Site</u> ME-CC	Event	<u>Visit</u>	<u>Staff</u> WBC	<u>Date</u> 12/15/2016	Arrival Time 1040	PDT	Flowmeter Level (feet) 1.107	Flowmeter Flow (cfs)	Outside Staff (ft)	Fridge T  C  4	Flush (L)  2L Distilled	Pump Count 735,685	Program/6712 Display Flow: 1 pulse/500mlx35, progran disabled	Comp bottle status/ Estimated Vol (L) n Bottle in, lid off.	Comp Duration (nearest half hrs)			<u>Time</u>	<u>Notes</u> 6712 needs desiccant
ME-CC ME-CC	3	2	LM,BM LM,BM	12/15/2016 12/16/2016		PST PST	1.337 2.485	52 781	1	2 2	2L Distilled	1,118,939	Sample 3 after 1 pulse Sample 24 after 1 pulse	2L Full		1055	2320		Change pump tubing
ME-VR2 ME-VR2 ME-VR2	3 3	1 2 3	WBC SG,DW SG,DW	12/14/2016 12/15/2016 12/16/2016	2135	PST PST PST	1.881 1.989 2.079	1 3 5	2 2	4 0 2	2L Distilled 2L Distilled	718,711 1,059,451	Flow: 1 pulse/500mlx35, progran disabled Sample 4 after 1 pulse Program done.	n Bottle in, lid off. 1.5L Bottle full		1035	2150		Change pump tubing
ME-SCR	3	1	No flow	12/10/2010	1032	PST	2.073	3			2L Distilled	1,000,101	Time: 20 min/500mlx35, program disabled			1033			
MO-OJA MO-OJA MO-OJA	3 3 3	1 2 3	WBC SG,DW SG,DW	12/14/2016 12/15/2016 12/16/2016	2010	PST PST PST	0.102 0.102 0.108	5 5 6	No flow	4 2 0	2L Distilled 4L Distilled	126,476 217,137	Flow: 1 pulse/500mlx35, program disabled Program disabled Program done.	n Bottle in, lid off. Empty 18L		0936	2010		
MO-MEI MO-MEI	3	1 2	WBC SG,DW	12/14/2016 12/15/2016	1344 2046	PST PST	0.08 0.12	1 3	No flow	Turned on 0	2L Distilled	161,172	Flow: 1 pulse/500mlx35, program disabled Sample 4 after 1 pulse	n Bottle in, lid off. 1.5L			2100		
MO-FIL MO-FIL	3 3 3	1 2	SG,DW WBC WBC,DM	12/16/2016 12/14/2016 12/15/2016	1118	PST PST PST	0.089 0.066 0.197	- -		0 4 4	4L Distilled 2L Distilled	245,613 363,989	Program done.  Time: 20 min/500mlx35, program disabled Program disabled	n Bottle in, lid off. Empty		1000	1940		Fridge turned off
MO-FIL  MO-OXN  MO-OXN	3 3 3	1 2	SG LM,BM	12/16/2016 12/14/2016 12/15/2016	0920	PST PST PST	0.136 0.109 0.788	0.3 14.9	0.8	2 2	2L Distilled 4L Distilled	521,451	Program done.  Flow: 1 pulse/500mlx35, program disabled Sample 5 after 1 pulse	n Bottle in, lid off. 2L		0920	2030		Channel water green - Oxnard rep notified
MO-OXN	3	3	LM,BM	12/16/2016	0930	PST	0.169	0.7	~1' wide flow in	0 Turned	2L Distilled	428,869	Program done.  Flow: 1 pulse/500mlx35, program	16L		0935	2030		High water mark ~ 1'
MO-CAM MO-CAM	3	1 2	SG LM,BM	12/14/2016 12/15/2016		PST PST	0.031 0.208	10 30	invert 0.1 Flow ~ 1/2	on -1	4L Distilled	203,515	disabled Sample 14 after 1 pulse	Bottle in, lid off. 6L			2145		Field duplicates also at 2145
MO-CAM	3	3	LM,BM	12/16/2016		PST	0.033	10	way to toe	1	2L Distilled	290,375	Program done.  Flow: 1 pulse/500mlx35, program			1126			
MO-SIM MO-SIM	3	1 2	WBC WBC,DM	12/15/2016 12/15/2016		PST PST	0.145 0.348	2 16	Almost to channel	4	2L Distilled	218,677	disabled Sample 14 after 1 pulse	Bottle in, lid off. 7L			2100		
MO-SIM MO-MPK MO-MPK	3 3 3	1 2	WBC WBC,DM	12/16/2016 12/15/2016 12/15/2016	0843	PST PST PST	0.145 0.072 0.304	0.1 7.8	Dry	4 4	2L Distilled 2L Distilled	296,201 373,367	Program done.  Flow: 1 pulse/500mlx35, program disabled Sample 5 after 1 pulse	n Bottle in, lid off. 2L		1020	2030		
MO-MPK	3	3	KH,DM	12/16/2016		PST	0.131	1.2	<channel toe</channel 	2	2L Distilled	520,592	Program done.	18L		0950	2030		
MO-THO MO-THO MO-THO	3 3 3	1 2 3	WBC WBC,DM KH,DM	12/15/2016 12/15/2016 12/16/2016	2145	PST PST PST	2.008 3.198 2.249	0 49 2		4 4 2	2L Distilled 2L Distilled	358,911 522,887	Flow: 1 pulse/500mlx35, progran disabled Sample 10 after 1 pulse Program done.	n Bottle in, lid off. 5L 17L		1100	2145		Fridge needs PVC distributor
MO-VEN	3	1	WBC	12/15/2016	1124	PST	0.041	1	Dry	4	2L Distilled	148,659	Flow: 1 pulse/500mlx35, progran disabled	n Bottle in, lid off.					"No more liquid" sample 1, 12-13 (18:34, 22:42 & 22:44) No error message samples 2-11, 14-35
MO-VEN	3	2	SG,DW SG,DW	12/15/2016 12/16/2016		PST PST	0.211	7	~0.05	0	4L Distilled	245,807	Errors have ocurred Program done/Errors have occurred.	75% full Full		1130	1850		(19:19-22:26 & 22:54-23:57)
MO-HUE	3	1	SG	12/14/2016		PST	NA NA	NA	NA	0	4L Distilled	NR	Time: 20 min/500mlx35, program disabled						

MO-HUE MO-HUE	3	2	LM,BM LM,BM	12/15/2016 12/16/2016			NA NA	NA NA	4.4 NA	2	2L Distilled	351,459	Sample 3 in 00:05 Program done.	1L 19L	1915 1018	
			,									,	Flow: 1 pulse/500mlx35, program	n		
MO-SPA	3	1	WBC	12/14/2016	1053	PST	NA	NA	NA	4	2L Distilled	369,157	disabled	Bottle in, lid off.		
MO-SPA	3	2	WBC,DM	12/15/2016	1845	PST	NA	NA	NA	4			Sample 2 after 1 pulse	1L	1845	Bacteria Field Blank @ 1845
									Flow							
MO-SPA	3	3	KH,DM	12/16/2016	0853	PST	NA	NA	present	4	2L Distilled	520,867	Program done.	14L	0853	

NR: Not recorded

All times are recorded here in PST

Forecast Rain: 1-3" across county

Actual Rainfall: 1" - 2" at most sites across the county

Storm Control: Kelly Hahs

Sample Tracking:

Bacteria samples to VCHCA:

12/15/16 @ 22:40 (SPA+FB/FIL/SIM/MPK/THO) by WB Carey 12/16/16 @ 00:15 (CC/CAM+FD/OXN/HUE) by Lara Meeker

12/15/16 @ 22:47 (VR2/OJA/MEI/VEN) by Steven (Scott) Greei

Toxicity samples to ABC:

None

Grab and composite samples to Weck Laboratories, Inc. by Weck-provided courier 12/16/16 @ 14:20 (All sites, grabs and composites) by Kelly Hahs to Leon Pinuclas (Essentials Courier

Deg F	Deg C	Deg C
29	-2	-1.667
30	-1	-1.111
31	-1	-0.556
32	0	0
33	1	0.556
34	1	1.111
35	2	1.667
36	2	2.222
37	3	2.778
38	3	3.333
39	4	3.889
40	4	4.444
41	5	5.000
42	6	5.556
43	6	6.111
44	7	6.667
45	7	7.222

															Comp				
							Flowmeter							Comp bottle	Duration				
					Arrival	PST/	Level	Flowmeter	Outside	Fridge T		Pump		status/	(nearest	Comp	Grab	Toxicity	<u>-</u>
<u>Site</u>	Event \	/isit	Staff	Date	Time	PDT	(feet)	Flow (cfs)	Staff (ft)	°C	Flush (L)	Count	Program/6712 Display	Estimated Vol (L)	half hrs)	Time	Time	Time	Notes
													Time: 20 min/500mlx35, progra	am Onsite, removed					
ME-SCR	4	1	WBC	1/4/2016	1019	PST	6.471	NA	NA	2	2L Distilled	NR	disabled	lid.					Checked calibration. Pulling 600ml.
MF-SCR	4	2	WRCIM	1/5/2016	กดกล	PST	7 22	NΔ	NA	2	21 Distilled	644 483	Program done	Overfull		0910	0930	0930	

NR: Not recorded All times are recorded here in PST Forecast Rain: 0.5" Actual Rainfall: 0.93" Storm Control: Bill Carey

#### Sample Tracking:

Bacteria samples to VCHCA:

01/05/17 @ 10:50 by Lara Meeker to Salvador Barragan

Toxicity samples to ABC:

01/05/17 @ 11:11 by Lara Meeker to Wendy Willis

Grab and composite samples to Weck Laboratories, Inc. by Weck courier: 01/05/17 @ 14:20 (SCR grabs and composites) by Bill Carey to Carlos N. (Weck)

Deg F	Deg C	Deg C
29	-2	-1.667
30	-1	-1.111
31	-1	-0.556
32	0	0
33	1	0.556
34	1	1.111
35	2	1.667
36	2	2.222
37	3	2.778
38	3	3.333
39	4	3.889
40	4	4.444
41	5	5.000
42	6	5.556
43	6	6.111
44	7	6.667
45	7	7.222

							Flowmeter							Comp bottle	Comp Duration			
<u>Site</u>	Event	<u>Visit</u>	<u>Staff</u>	<u>Date</u>	Arrival Time	PST/ PDT	<u>Level</u> (feet)	Flowmeter Flow (cfs)	Outside Staff (ft)	Fridge T <u>°C</u>	Flush (L)	Pump Count	Program/6712 Display	status/ Estimated Vol (L)	(nearest half hrs)		Grab Time	<u>Toxicity</u> <u>Time</u> <u>Notes</u>
ME-VR2	5	1	WBC	1/18/2017	1120	PST	1.994	3	1.99	4	2L Distilled	0	Flow: 1 pulse/500mlx35, program disabled	Bottle in, lid off.				Replaced both pump tubes and reset counts to 0. Calibrated 500ml. Replaced 4230 and 2105 desiccant.
ME-VR2	5	2	SG,DW	1/19/2017	0250	PST	2.128	7	2.15	0			Sample 4 after 1 pulse	~2L			03:10	
ME-VR2	5	3	KH,WBC	1/19/2017	0945	PST	2.166	8	NR	2	2L Distilled	366,649	Program done.	18.5L (overfilled)	8	09:45		
ME-SCR ME-SCR	5 5	1 2	KH LM,SC	1/18/2017 1/19/2017	1110 0317	PST PST	7.086 6.377	NA NA	NA NA	0 1	3L Distilled	644,483	Time: 20 min/500mlx35, program disabled Sample 7 in 06:40	Bottle in, lid off. ~4.5L			03:30	Checked calibration with grab sample. Heavy sediment load. 540 ml delivered.
ME-SCR	5	3	KH,SC	1/19/2017	1315	PST	8.375	NA	NA	0	2L Distilled	902,416	Program done.	18.5L (overfilled)	11.5	13:15		Change pump tubing. Distinct sediment line in bottle (approx 1/3 sediment)
MO-OJA	5	1	WBC	1/18/2017	0938	PST	0.101	5	No flow	4	2L Distilled	220,124	Flow: 1 pulse/500mlx35, program disabled	Bottle in, lid off.				Needs 4230 and 6712 desiccant
MO-OJA	5	2	SG,DW	1/19/2017	0105	PST	0.151	9	Not Recorded Not	0			Sample 6 after 1 pulse	~2.5L			01:15	Get OSS from SG photo once he uploads them to K drive. Heavy flow from nearby upstream pipe while sampling Get OSS from SG photo once he uploads
MO-OJA	5	3	SG,DW	1/19/2017	0330	PST	0.129	7	Recorded	0 Turned	4L Distilled	310,830	Program done.	17L	2	04:00		them to K drive.
MO-MEI	5	1	WBC	1/18/2017	1013	PST	0.082	1	No flow Not	on	2L Distilled	248,586	Flow: 1 pulse/500mlx35, program disabled	Bottle in, lid off.				Get OSS from SG photo once he uploads
MO-MEI	5	2	SG,DW	1/19/2017	0150	PST	0.24	11	Recorded	2			Sample 14 after 1 pulse	~5L			02:00	them to K drive.
MO-MEI	5	3	SG,DW	1/19/2017	0420	PST	0.33	20	~0.2	0	2L Distilled	332,422	Program done.	20L	2	04:20		Get OSS from SG photo once he uploads them to K drive. Turned fridge off.
MO-CAM MO-CAM	5 5	1 2	KH LM,SC	1/18/2017 1/19/2017	1015 0223	PST PST	0.033 0.499	10 87	<0.01 cfs invert only 0.5	Turned on 1	4L Distilled	292,795	Flow: 1 pulse/500mlx35, program disabled Sample 27 after 1 pulse	Bottle in, lid off. ~10L			02:35	
MO-CAM	5	3	KH,WBC	1/19/2017	1025	PST	0.031	10	<0.01 cfs invert only	4	2L Distilled	381,775	Program done.	18L	8.5	10:25		Turned fridge off. 4230 needs desiccant.
MO-VEN MO-VEN	5 5	1 2	KH LM,SC	1/18/2017 1/19/2017	0840 0140	PST PST	0.04 0.89	0 77	mostly dry NR	4	4L Distilled	252,152	Flow: 1 pulse/500mlx35, program disabled Sample 11 after 1 pulse	Bottle in, lid off. ~3L			01:55	
MO-VEN	5	3	KH,WBC	1/19/2017	1050	PST	0.054	1	sheet flow to toe	0	2L Distilled	349,786	Program done.	18L	8.5	10:50		Turned fridge off.
MO-HUE	5 5	1 2	KH LM,SC	1/18/2017 1/19/2017	0930 0052	PST PST	NA NA	NA NA	~4.6	1	4L Distilled	356,812	Time: 20 min/500mlx35, program disabled Sample 2 in 00:17	Bottle in, lid off. ~1L			01:05	
MO-HUE	5	3	KH,SC	1/19/2017	12:25	PST	NA	NA	-	2	2L Distilled	509,430	Program done.	18L	11.5	12:25		

#### Deg F Deg C Deg C **Event Notes:** 29 -2 -1.667 NR: Not recorded All times are recorded here in PST 30 -1 -1.111 Forecast Rain: ~1" 31 -1 -0.556 Actual Rainfall: ~1" 32 0 0 Storm Control: Kelly Hahs 33 1 0.556 34 1 1.111 Sample Tracking: 35 2 1.667 Bacteria samples to VCHCA: 36 37 2 2.222 01/19/2017 @ 05:25 (VR2/OJA/MEI) by Steven (Scott) Greer 3 2.778 01/19/2017 @ 04:15 (SCR/CAM/VEN/HUE) by Sean Casey 38 3 3.333 39 4 3.889

40

4 4.444

 Toxicity samples to ABC:
 41
 5
 5.000

 None
 42
 6
 5.556

 Grab and composite samples to Weck Laboratories, Inc. by Weck-provided courier:
 43
 6
 6.111

 01/19/2017 @ 14:30 (All sites, grabs and composites) by Kelly Hahs to Steve Yudani (?)[Essentials Courier)
 45
 7
 7.222

<u>Site</u>	<u>Event</u>	<u>Visit</u>	<u>Staff</u>	<u>Date</u>	Arrival Time		Flowmeter Level (feet)	Flowmeter Flow (cfs)	Outside Staff (ft)	Fridge T <u>°C</u>	Flush (L)	Pump Count	Program/6712 Display	Comp bottle status/ Estimated Vol (L)	Comp Duration (nearest half hrs)		Grab Time	 - <u>Notes</u>
			<u> </u>	<u> </u>										Bottle in, lid off.				
ME-SCR	6	1	KH,WBC	5/3/2017	0855	PDT	7.413			4	4L Distilled	134,259	Time: 40 min/500mlx35	Sample 1 vol good.				Fridge not working properly. Thin layer of
																		ice on top of bottle. Grabs taken in diversion
ME-SCR	6	2	KH,SSG	5/4/2017	0930	PDT	6.772			-13	4L Distilled	346,417	Program done	18L	24	0940	0940	canal.
														Bottle in, lid off.				Cleared sediment in channel from near intake and bubbler to redirect flow past
MO-FIL	6	1	KH,WBC	5/3/2017	0740	PDT	0.256			4	4L Distilled	527,886	Time: 40 min/500mlx35	Sample 1 vol good.				them.
MO-FIL	6	2	KH,SSG	5/4/2017	0815	PDT	0.265			2	4L Distilled		Program done	16L	24	0820	0820	
MO-OXN	6	1	KH,WBC	5/3/2017	1020	PDT	DRY		DRY	2	4L Distilled		Time: 20 min/500mlx35, delay start 12 hrs. Program disabled	Bottle in, lid off				Homeless camp directly behind sampler house. Channel completely dry. No evidence of recent flow. Delayed start 12 hour in case flow starts. Used silicone dam and calibration line for sampling.
MO-OXN	6	2	KH,SSG	5/4/2017	1145	PDT	0.109		DRY	0	4L Distilled	679,730	Program done. Errors.	0.5L	12	1150	1150	Program errors: No liquid detected samples 1-11 and 15-35; no more liquid samples 12-14. Very small flow overnight. Channel dry ~ 300m upstream. Extremely limited composite sample volume.
			•						< <oss< td=""><td>Turned</td><td></td><td>,</td><td></td><td>Bottle in, lid off.</td><td></td><td></td><td></td><td>Used silicone dam and calibration line for</td></oss<>	Turned		,		Bottle in, lid off.				Used silicone dam and calibration line for
MO-VEN	6	1	KH,WBC	5/3/2017	0945	PDT	0.04		(trickle)	on	4L Distilled	355,145	Time: 40 min/500mlx35	Sample 1 vol good.				sampling.
				- / 1/00					<<0\$\$	2			Danasan dana Essan	421			4050	Program errors: Good samples 1-16 and 32-35, no liquid detected samples 20-28; no
MO-VEN	6	2	KH,SSG	5/4/2017	1040	PDT	0.057		(trickle)	2	4L Distilled	459,333	Program done. Errors. Time: 5 min/500mlx35,	13L	24	1050	1050	more liquid samples 17-19 and 29-31.
MO-SPA MO-SPA	6	1 2	KH,WBC KH,SSG	5/3/2017 5/4/2017	0815 0855	PDT PDT	DRY DRY		DRY DRY	4	4L Distilled 4L Distilled	526,737	program disabled. Set to enable with flow Disabled	Bottle in, lid off DRY		DRY	DRY	Used silicone dam in case of overnight flow. No samples taken
IVIO 31 A	0		K11,550	3/4/2017	0033	101	DITI		2	Turned	4L Distilled		2.500.00	Bottle in, lid off.		DICI	DIKI	nto sumples taken
ME-CC	6	1	KH,WBC	5/17/2017	1010	PDT	1.052	5		on	4L Distilled	Replaced	Time: 40 min/500mlx35	Sample 1 vol good.				Calibrated sample volume.
ME-CC	6	2	KH,WBC	5/18/2017	1040	PDT	1.095	7		0	4L Distilled	368,952	Program done	Full (>18.5L)	24	1035	1040	
MO-CAM	6	1	KH,WBC	5/17/2017	1055	PDT	0.034	10	< <oss (trickle)</oss 	Turned on	4L Distilled		Time: 40 min/500mlx35	Bottle in, lid off. Sample 1 vol good.				Used silicone dam and calibration line for sampling.
MO-CAM	6	2	KH,WBC	5/18/2017	1120	PDT	0.034	10	< <oss (trickle)</oss 	4	4L Distilled		Program done. Errors.	17L	24	1120	1125	Program errors: Good samples 1-14 and 19- 35; no more liquid samples 15-18.
MO-SIM MO-SIM	6 6	1 2	KH,WBC KH,WBC	5/17/2017 5/18/2017	0850 0915	PDT PDT	0.162 0.157	3 2		-4 NR	4L Distilled 4L Distilled	377,327	Time: 40 min/500mlx35 Program done.	Bottle in, lid off. Sample 1 vol good. 18.5L	24	0915	0915	Used calibration line for sampling.
МО-МРК	6	1	KH,WBC	5/17/2017	0800	PDT	0.074	0.2	< <oss (trickle)</oss 	0	4L Distilled		Time: 40 min/500mlx35	Bottle in, lid off. Sample 1 vol good.				Used silicone dam and calibration line for sampling.

мо-мрк	6	2	KH,WBC	5/18/2017	0810	PDT	0.075	0.2	< <oss (trickle)</oss 	0	4L Distilled	709,434	Program done. Errors.	11L	24	0810	0810	Program errors: Good samples 1-16, 18, and 20-35, no liquid detected sample 19; no more liquid sample 17.
МО-ТНО	6	1	KH,WBC	5/17/2017	0930	PDT	1.989	0		4	4L Distilled		Time: 40 min/500mlx35	Bottle in, lid off. Sample 1 vol good.			1	Program errors: Good samples 1-14 and 34-35, no liquid detected samples 17-33; no
мо-тно	6	2	KH,WBC	5/18/2017	1000	PDT	2.035	0		3	4L Distilled	695,280	Program done. Errors.	17L	24	1010	1010	more liquid samples 15-16.
ME-VR2	6	1 2	KH,WBC KH,WBC	5/22/2017 5/23/2017	1000 1055	PDT PDT	Malfunction			0	4L Distilled	732,553	Time: 40 min/500mlx35 Program done.	Bottle in, lid off. Sample 1 vol good. 18.5L	24	1110	1110	Found intake (moved by winter storms). Line still functioning. Checked calibration. Flowmeter malfunctioning. Cleared out sediment but malfunction continued. Flowmeter reading taken after digging out, reaming and purging line.
MO-OJA	6	1	KH,WBC	5/22/2017	0815	PDT	0.101	5	< <oss (trickle)</oss 	2	4L Distilled		Time: 40 min/500mlx35	Bottle in, lid off. Sample 1 vol good.				Used silicone dam and calibration line for sampling.
MO-OJA	6	2	KH,WBC	5/23/2017		PDT	0.101	5	< <oss (trickle)</oss 	2	4L Distilled	408,300	Program done.	18.5L	24	0020	0920	
MO-MEI	6	1	KH,WBC	5/22/2017	0920		DRY	3	(criexie)	Turned on	4L Distilled	408,300	Time: 20 min/500mlx35, delay start 12 hrs. Program disabled		24	0320	0320	Used silicone dam and calibration line for sampling.
MO-MEI	6	2	KH,WBC	5/23/2017	1026	PDT	DRY						Program done.	DRY		DRY	DRY	Removed comp and grab bottles from site.
MO-HUE	6	1	KH,WBC	5/22/2017	1115	PDT	NA			20	4L Distilled		Time: 40 min/500mlx35	Bottle in, lid off. Sample 1 vol good.			1	Fridge broken. Put ice in cube container around comp bottle and entire cooler in fridge to keep cold.
MO-HUE	6	2	KH,WBC	5/23/2017	1210	PDT	NA			NA	4L Distilled	664,829	Program done.	17L	24	1220	1220	Ice still present in cooler. Station pumps off.  Dead bird at steps near grab sample area.
05/18/17 ( 05/23/17 ( Toxicity sa NA  Grab and c 05/04/17 ( 05/18/17 (	acking: acking: amples: @ 13:4: @ 12:08 @ 13:04 mples t	to VCH 1 PDT ( 3 PDT ( 4 PDT ( o ABC: ite sam 5 PDT ( 0 PDT (	SCR/FIL/OXN CC/CAM/MP VR2/OJA/HU ples to Weck SCR/FIL/OXN CC/CAM/MP	/VEN) by Kelly K/SIM/THO) by	/ Kelly Ha is Inc. by W Hahs to / Kelly Ha	Veck-pr David L ahs to D	ovided courier: evy (Reliable Mess avid Levy (Reliable (Reliable Messeng	Messenge							Deg F 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45	Deg C -2 -1 -1 0 1 2 2 3 3 4 4 5 6 6 7 7	Deg C -1.667 -1.111 -0.556 0 0.556 1.111 1.667 2.222 2.778 3.333 3.889 4.444 5.000 5.556 6.111 6.667 7.222	

Appendix E. Chain-of Custody Forms

64118075

### **Ventura County Watershed Protection District NPDES Stormwater Monitoring Program**

**Project: NPDES Stormwater Wet Season** 

VENTURA COUP	The state of the s	Pre-se	easo	on -	We	ck Labo	orate	orie	es.	Inv	oice	Contract No AE17-001
Sampling Date:	8/18/	16					P	roje	ect N	Num	ber:	2016/17-PRE
Sampling Team:	- KHAH	<u>5, W.B</u>	, (1	ARE	<u> </u>							
						EPA 200.8* (total only, see list in side bar) EPA 245.1. Hg (total only)			ent and HNO3**	oer Lab SOP		* Metals by200.8, Total: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn
SAMPLE ID	DATE/TIME (	COLLECTED	EPA 525.2	EPA 625-CTR		EPA 200.8* (total only, se EPA 245.1. Hg (total only)		No action required	Clean with detergent and HNO3**	Please dispose of per	Quantity	NOTES
EB lines	8/18/16	1045	4	42		1					7	(mo-VEN)
EB composite		1430	Χ̈́	Х		Х					1	To be split in lab
	ì											
18.5 L carboy and lid			ž						X		1	Please place tape or plastic bag over top
Blue cube cooler								Х			1	
Black bag								х			1	
W <del>aste Dilute HNO3</del>			_							*	3,	~ 3L (1 quart 1% HNO3 + 2L distilled water used for cleaning our equipment)
	<u> </u>	•			<u>.</u>		$\perp$					
Relinquished	Printed Name Signature Affiliation	e Ke	Ų	1d	HA S	4HS		Date	e/Tii	me		3/18/16/1520
Received	Printed Name	= F	الل	A.	١	GOLD	BE	RG	_			
	Signature	al	li	_	_		: 	_	_	·		
	Affiliation	Weck La							•/Ţii			8/18/16/1520
PECING X Other Notes:	Please use fo	r MS/MSD		Ĺ[Λ ysis		n sample	volu	ع) meر	( l i	ር rmits	18 s.	18 ' /
	** Please clear	n with deter	rgent	t, nit	ric a	cid, and d	eioni	ized	wat	ter p	er SO	OP.



**Ventura County Watershed Protection District** 

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season

Pre-season - Weck Laboratories. Invoice Contract No. AE17-001

Sampling Date:	10/7/16					Project	Nun	nber: 2016/17-PRE
Sampling Team:	<u>K.HAHS</u>							AND THE RESERVE OF THE PARTY OF
SAMPLE ID Blank bottle 1	DATE/TIME COLLECTED	х					<u> </u> 	* Metals by 200.8, Total: Al, Cr, Cu, Fe, Ni, Pb, Zn  NOTES  Test is to check for contaminant residue. Please use as little water as possible to create sample. Do not overdilute sample!  Fest is to check for contaminant residue. Please use is little water as possible to create.
Blank bottle 2	10/2/16 10:00	X					1	Riesse use as little water as possible to create sample to no contribute sample!
				<u> </u>				
Relinquished	Printed Name  Signature  Affiliation  VCWPD	E G	TTA TTA	HA		Date/Ti	ime	10/7/16/ 1330
Received	Printed Name A	1	AN	GOL	OBE HUH			
Other Notes:	Affiliation Weck La		G	1017		Date/Ti	me <b>ク</b> を	10/7/16/ 1330 James men 10/7/14 1438
								71,5°



# Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 1 of 2)

Sampling Date	: _ 101281/6			_	Pro	ject	Nun	nber	: 2010	6/17-	1 0	(et)
Sampling Team	n: T. LIODELL,	D withins	03/								-	
LAB USE ONLY	SAMPLE ID		/TIME BCTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter	M. A. Ch. A.	Number of Bottles	NOTES
	ME-CC	10/28/16	PDT	X	X		Х	X	X		2	110120
	ME-SCR			Х	X.	X	X	Х	х	1	2	
	ME-VR2			Х	X	X	х	X	х	1	2	
	MO-CAM			X	х		X	Х	x	2	2	
	MO-OJA			Х	X		X	X	x	.2	2	
	MO-MEI		0755	х	X	N -	х	X	X	2	2	
	MO-VEN	10/28/16	0685	X	х		x	х	X	2	2	
	FD-1	10/28/16	5655 PST	X	X		x	X		1		
	/		0755									÷
Relinquished	Printed Name	Tom	MY LIDE	DE (						10		
-	Signature	Jo	mmy Lis	Le	el							
	Affiliation	Vew	0		Date	:/Tir	ne		101=	28/	16	1000
Received	Printed Name	Nadi	all	05	+							
	Signature	nad	ea U	4	2	>	*					
	Affiliation	PHIAT	3		Date	/Tir	ne _	1	J26	8/1	6	1CCC
Other Notes:	Perform bacteriologic	al analyses with	in 6 hours of	sam	ple o	colle	ction	ı tim	ie			
	1:10 1:100, and 1:1000	dilutions for I	Enterococcus	and	Е. с	oli						



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 2 of 2)

Sampling Date:		10/28/16	_	Pro	ject l	Nun	ıber:	201	6/1	7-1 (	(Wet)
Sampling Team:		T. LIDDELL	D.V	NIL	KII	USI	10	)	_		
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter		Number of Bottles	NOTES
	MO-SPA		X	X		Х	X	Х		2	
	MO-FIL		X	X		X	X	X		2	
	MO-SIM		X	X		X	X	X		2	
	мо-мрк		X	X		X	X	X		2	
	мо-тно		X	X		X	X	X		2	
	MO-OXN	10/28/16 05585	X	X		X	X	X		2	
10	MO-HUE	015	X	X		X	X	X		2	
											7 7 1
Relinquished	Printed Name					/					
	Signature			/	/			/	/		-
	Affiliation		/	Dat	e/Ti	me	/				
Received	Printed Name		1	5	/						9
	Signature	/ 1	1	/							
	Affiliation			Date	e/Ti	me					
Other Notes:	Perform bacteriologic	cal analyses within 6 hours o	f san	nple	colle	ectio	n tin	ne			
	1:10 1:100, and 1:100	0 dilutions for Enterococcu	s and	E. 0	oli						



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season

Bacteriological - VCHCA Lab (SIDE 1 of 2)

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter		Number of Bottles	NOTES
	ME-CC.		X	X-	X	-X-		X		2	
	ME-SCR		-X-	X	X	X	X-	X	Same and	_2_	The state of the s
	ME-VR2	0/28/16 0720	X	X	X	X	X	X		2	
	MO-CAM-		X	X	-	X	X	X		_2_	
	MO-OJA	10/2/3/16 0450	X	Х		X	X	X		2	
	MO-MEI	10/28/16 0565	X	X		X	X	X		2	
	MO-VEN	to the second se	X	X	1	X	×	- X-	===	2	State of the state
	FD-1		X	X		X	X			1	
Relinquished Received	Printed Name Signature Affiliation Printed Name Signature Affiliation	Lara Meeker Jan M VCWPD Nodice We PHLAD		+	e/Tir				3-1		10:17 6 KIV
ther Notes:	Perform bacteriologic	al analyses within 6 hours o	f sam	nde (	colle	ctio					
		dilutions for Enterococcus				2401					



Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Bacteriological - VCHCA Lab (SIDE #042) + of

Sampling Date: Project Number: 2016/17-1 (Wet) Sampling Team: WBC Total Coliform (Tray Method - WQ IDEXX Enterococcus (Tray Method - WQ IDEXX Total Coliform (25 Tube Method - MPNX Fecal Coliform (25 Tube Method - MPNX coli (Tray Method - WQ IDEXX Number of Bottles **DNA Filter** LAB USE DATE/TIME ONLY SAMPLE ID COLLECTED **NOTES** MO-SPA X X X X X 2 10/28/16 06:15 MO-FIL X X X X X 2 07:00 MO-SIM X X X X X 2 09:10 MO-MPK X X X X X 2 08 15 MO-THO X X X X X 2 MO-OXN X X X X 2 MO-HUE 2 SEAN CASEY Relinquished Printed Name Signature VCWPD Date/Time 10/18/16 Affiliation 10:50 Received Printed Name Signature Affiliation Date/Time Other Notes: Perform bacteriological analyses within 6 hours of sample collection time 1:10 1:100, and 1:1000 dilutions for Enterococcus and E. coli



### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

### Project: NPDES Stormwater Wet Season

Toxicity - ABC Laboratories

Side 1 of 🗸 📗

SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES
ME-CC	the same and the s	X				-			-2.	Note 1, Note 2, Note 3
ME-SCR					X		-		-1-	Note 1, Note 2, Note 3
Æ-VR2	10/28/16 0720	X							2	Note 1, Note 2, Note 3
IO-CAM	+ 1					_X_			-2-	Note 1, Note 2, Note 3
10-ОЈА	10/28/16 0420					X			2	Note 1, Note 2, Note 3
IO-MEI	10/28/16 0555					X			2	Note 1, Note 2, Note 3
10-VEN							Х		2	Note 1, Note 2, Note 3
Celinquished	Printed Name Signature Affiliation	sa COP	3	m.	-,	- Date/1	l'in	10-7	28	16 9:47
Received	Printed Name Signature Affiliation	rin c	. ll	en!		Date/T	Cim/	- 0 28	<u>-</u> /	6 9,47
Other Notes:	Note 1: Dilutions - 6.259 Note 3: Notify District v				100%	Note	2: Plea	se exec		TIE if mortality > 50%



### Ventura County Watershed Protection District

## NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season

Toxicity - ABC Laboratories

Side 210 f 2 10 f |

Sampling Date: Sampling Team:	10/28/16 Proje							ject Number: 2016/17-1 (Wet)			
SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES	
MO-OXN						X			2	Note 1, Note 2, Note 3	
MOTUE	310						X		3	Note 1, Note 2, Note 3, Note 4	
мо-тно	10/18/16 10:10						X		2	Note 1, Note 2, Note 3	
MO-MPK	10/26/16 08 15							X	2	Note 1, Note 2, Note 3	
MO-SIM	10/28/16 09:10						X		2	Note 1, Note 2, Note 3	
MO-FIL	10/28/16 01:00						X		2	Note 1, Note 2, Note 3	
MO-SPA	10/28/16 06:15		T.			Х			2	Note 1, Note 2, Note 3	
Relinquished Received	Printed Name  Signature  Affiliation  Printed Name  Signature  Signature  Signature  Signature										
Other Notes:	Affiliation Date/Tirr WARTY QQQ  Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50%  Note 3: Notify District within 24 hours if significant toxicity is observed.										
	Note 4: If salinity >2 ppt then also run topsmelt for comparison. If topsmelt unavailable, use Hyalella										



## Ventura County Watershed Protection District

# NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season

Toxicity - ABC Laboratories

Side 1 of 2

Sampling Date:	10/28/16				_	Projec	t Numl	oer: 201	16/1	17-1 (Wet)
Sampling Team:	T. LIDDELL,	D. (	NILIE	1N50	N					
SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES
ME-CC	10hallo 0900	X							2	Note 1, Note 2, Note 3
ME-SCR					X				1	Note 1, Note 2, Note 3
ME-VR2	,	X							2	Note 1, Note 2, Note 3
MO-CAM						X			2	Note 1, Note 2, Note 3
MO-OJA						X			2	Note 1, Note 2, Note 3
MO-MEI						X			2	Note 1, Note 2, Note 3
MO-VEN	10/28/16 0655						X		2	Note 1, Note 2, Note 3
	0755									
Relinquished	Signature Affiliation	Jone	y See	10DE Hell	/	Date/'	Tin;/	0 128,	116	1055 PD7
Received	Printed Name	mit	3	144						
	Signature Affiliation	Be L	ABS.			Date/	Tim	W~	28	26/602
Other Notes:	Note 1: Dilutions - 6.259 Note 3: Notify District v								cute	TIE if mortality > 50%



# Ventura County Watershed Protection District

# NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season

**Toxicity - ABC Laboratories**Side 2 of 2

Sampling Date:	10/28/1	(n)			Sic	le 2 of Projec		ber: 20	16/	17-1 (Wet)
Sampling Team:	T-L, 1	lv.					\$			
SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrous purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES
MO-OXN	10/28/16 58/57	151				X			2	Note 1, Note 2, Note 3
MO-HUE	0715	TOY					X		3	Note 1, Note 2, Note 3,Note 4
MO-THO							X		2	Note 1, Note 2, Note 3
MO-MPK								X	2	Note 1, Note 2, Note 3
MO-SIM							X		2	Note 1, Note 2, Note 3
MO-FIL							X		2	Note 1, Note 2, Note 3
MO-SPA						X			2	Note 1, Note 2, Note 3
										/
Relinquished	Printed Name				/					
	SignatureAffiliation			/	6	Date/T	No.			
Received	Printed Name	/		cg.		Jacop				
	Signature			1						
	Affiliation				_ 1	Date/T	in			
Other Notes:	Note 1: Dilutions - 6.25%	6, 12.5%	6, 25%,	50%, 1	100%	Note	2: Plea	se exec	ute	TIE if mortality > 50%
	Note 3: Notify District w					oxicity	is obse	rved.		
	Note 4: If salinity >2 ppt	then al	so run t	opsme	lt for co	ompari	son. If	topsme	elt u	navailable, use Hyalella



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# **Ventura County Watershed Protection District**

**NPDES Stormwater Monitoring Program** 

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	10/28/2016				_			Pro	ject l	Num	ber	: 201	6/1	7-1 (	Wet) Grabs
Sampling Team:			<u>Ha</u>	درا	, પ	B	Œ.	γ~ <del>1</del>	<u>Y</u> ,	la	ru	Med	Ker		Towny L. Dean W. Soun
SAMPLE ID	DATE/TIME COLLECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only analyze if hits			production in the second control of the seco			, makes	The state of the s	Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
ME-CC	10/28/16 0900	2	1	2	3	1								9	
ME-SCR	and productive the same and the	-2	-4	-2-	-3-	-4	لطف س <sub>ال سد</sub> .	) }	perdayin d	·	- 		. Lang A	"gʻ	
ME-VR2	10/28/16 0720	2	1	2	3	1								9	. #
MQ-CAM	and the second of the second o	-2-	-1-	2	_3_	1	a . As a septem			***			-	9	merus sung.
мо-оја	10/28/16 0450	2	1	2	3	1								9	
MO-MEI	16/18/16 OSS5	2	1	2	3	1								9	
MO-VEN	10/28/16 0655	2	1	2	3	1								9	
MO-OXN	10/28/16 06/5	2	1	2	3	1							-	9	
FD-1	10/28/16 0685	2	7	2	3	ŧ								9	Data and time was token from some containers
Relinquished		ce C	<u></u>	3.	- (		~		e/T:	me	1	0/2	28	2	-D6-10/28/16°
Received .	Printed Name Mark	12	<u>-</u> (	2						-					
Other Notes:	Affiliation Cove-fee  Travel blanks are only to  EPA 624 has replaced EI	be a	naly		if saı		s hav	ve h	its o		BE	or 2	····	EVE	· · · · · · · · · · · · · · · · · · ·

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#### Chain of Custody Record

#### Ventura County Watershed Protection District

#### NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 2 of 2)

Sampling Date: Sampling Team:	10/28 Steen 9	3/204 irear, Ke	6 Ilyx	Ha	<u>ر</u> ط	,w	ල (J	;cm	Proj	ect l	Num	ber:	201 Ker	6/17	?-1 (\ 5 <b>wq</b> )	Wet) Grabs VL, Dean W, Sean C.
	DATE/	ГІМЕ	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only analyze if hits	-							Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID	COLLE	CTED														NOTES
MO-SPA	10/28/16	06:15	2	1	2	3	1								9	<del></del>
MO-FIL	10/29/16	07:00	2	1	2	3	1								9	, we
MO-SIM	10/25/16	09:16	2	1	2	3	1								9	
MO-HUE	the anti-construction of the construction of t	, a la grant de samuello actor	. 2	. 1	. 2	3	1.		- 4,5%	, 1,5 1,5 + <b>34</b>	au , gra , au  -, ai	e verteur en	ه جمسیتو.	regis/species	-9	" -a
МО-ТНО	10/26/16	10:10	2	1	2	3	1								9	
MO-MPK	10/16/16	08:13	2	1	2	3	1								9	
								. ,		-						
Relinquished	Printed Name Signature Affiliation	Story Kurp	in.	_ (		. (		7	~	e/T	ime	įę	 -/z	ප/්	zoil	ko
Received	Printed Name Signature Affiliation	Care 1	1	Ai	WEI Sel		L	2	Dat	e/T:	ime	10	128	/2	201	6 3784pm
Other Notes:	Travel blanks EPA 624 has										f MT	ßΕ	or 2	-CL	EVE	)

# And Protection Diego

#### Chain of Custody Record

#### Ventura County Watershed Protection District

GJZY070

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 1 of 1)

Sampling Date:	10/28/20	ال	ж			., ,						•			Wet) Composites
Sampling Team:	Steven Green,	Yelly	Hat	ا ب	ÚΫ	<sub>3</sub> C	ène	<del>y</del> 1	Lor	a t	Nee	ker	,	(DN	umy L., Dean W., Sean C.
SAMPLE ID	DATE/TIME COLLECTED	Discolved Internation Cortice and Discolved Oceanic Cortice		Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR			ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K 608 include alpha- & gamma-chlordane * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS Lab to select samples for MS/MSD where extra volume permits (all test
ME-CC	COLLECTED		_	X	X	m X	Z X	A.	9 X	ic X	ici X	k D	V X	<u>Z</u> _1_	NOTES
ME-SCR		X		$\mathbf{x}$	X	Х	X	X	y.	Y	X	X	X	1	-
ME VR2	101-241-0720-	7		X	Y	Y	X	X	X	X	X	- <del>X</del> -	X	4	
MO-CAM	10/28/16	, , ,		Х	X	X	X	X	X	х	X	X	X	-1	Cleaned
МО-ОЈА	10/28/16 084502	X		Х	X	Х	X	X	X	X	X	X	X	1	Time: 845
MO-MEI	10/28/16 0915	Х		Х	X	X	X	X	X	X	X	X	X	1	Time: 915
MO-VEN	(0/28/16 1140 8	7 X		Х	X	X	Х	X	X	X	X	Х	X	1	,
	<b>'</b>														
Relinquished	Signature 5	even tu		S	200	G	_	— Date	e/Ti	me	1 e	1/2	હો	26	, <b>(</b> C
Received	Printed Name M	(1' 4	nu	~		と						t -	<del>- /</del> 	<u></u>	
Other Notes: 2) Please do not dilu	Affiliation COV  1) Filter for dissolved retelimited volume samp		ınd pe		m co	ndu	ctivi	ty ar		es m					rtant).



# Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 2 of 2)

Sampling Date: Sampling Team:	10/28/201 Steven Green		elly	ah s	, 0	7V						****			wet) Composites  mmy L., Dean W., Secur
SAMPLE ID	DATE/TIME COLLECTED		Dissolved Inorganic Carbon and Dissolved Organic Carbon	Metals, total & dissolved (+ Hardness), & Barium (total only)	C++6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	ALK, CLO4, Turb, TDS, T88, VSS, Cond	Number of Bottles	Metals by 200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS  Lab to select samples for MS/MSD where extra volume permits (all test
MO-SPA	10/28/2016 12:45/		$\exists x$		¥	X	Х		x	X		x	x	1	
MO-FIL	with water a		x	x	x	X	Х	X	X	X	Х	X	X	1	
MO-SIM	10/20/16 09:85	2	X	x	Х	x	X	X	X	Х	Х	X	X	•	
MO-MPK	volzelie cu:so		X	X	X	x	х	X	X	X	X	X	X	1	
мо <del>лно —</del>			X	x	x	X	x	Х	Х	X	X	X	X	1	
MO-OXN	iologija Biau	157	X	X	X	X	X	X	X	X	X	X	X	1	
Section 1		-	78	+×	x	Y	X	X	Œ,	X	×	X.	X	1.	
	and the second s								4				eron.		
Reinspirited	Princed Sparte. 2 Signature: 1.2 Attitude: 3.4/C	₹ <del>7</del>			٧		G					o l	- 2 y		
	Argustus Lagranias Argustus Lagranias Lagrania														



#### Ventura County Watershed Protection District

#### NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (*Contract AE17-001*)

**Equipment - Weck Laboratories** 

Sampling Date:	10/28/	2016			Project l	Number	: 2016/17-1 (Wet) Cleaning
Sampling Team:	Steven G	reer, Kelly H	mh), c	0 eu	vey	lura	Meeker, Tommy L., Down W, Saun (
			Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	. , .	
	EQUIPMENT	-	Clea	Clea	No a		NOTES
18.5 L wide nec	k carboy and lid		3				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Blue cube cooler		• • •	蒙		St.		
Black bags					91		
20 L narrow nec	k carboy, 2 lids, atta	chment assembly	6		,		Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
				·			
Relinquished	Printed Name	Steven	<u>S.</u>	Fra	Ϋ́		
•	Signature Affiliation	3000	WA		D-4- /T		10/28/2016
		VOUPD	-: 1	3	Date/Ti	e	10[28] 2016
Received	Printed Name	MATT A	NEN/	2		<del></del> ·	
	Signature -		<u> </u>	<u>~</u>	<b>.</b> /F:	. 7	10/20/2 1 9:25
	Affiliation	CORIER	PRIVE	<u> </u>	Date/Ti	ime t	0/28/2016 3:35 pm
Other Notes:							after methanol step (allow to air dry after
	methanol clean	ing to avoid organi	ics conta	mination	). Record	d the bot	ttles cleaned with methanol.



GJ 2900/.

#### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	10/29/16							-	Proj	ect l	Num	iber:	201	6/1	7-1 (	Wet) Composites
Sampling Team:	S. GREER															<u></u>
SAMPLE ID	DATE/TIME COLLECTED		Dissolved Inorganic Carbon and Dissolved Organic Carbon	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 625CTR, 82705IM-PAH, & 8270SIM-PHENOLS  Lab to select samples for M5/MSD where extra volume permits (all test
ME-CC	10/29/16 1000	<u> </u>	·X	X	Χ	X	Х	Х	X	X	X	X	Χ	X	1	PRIORITILE
ME SCR			X		X	X	X	Χ.	X	X	X	X	Х	<del>-X</del> -	4	
ME-VR2	10/29/16 0742	<u> </u>	X		X	X	Х	Х	Х	X	X	X	X	X	1	
MO-CAM			X		X	X	X	X	X	X	X	X	X	-X-	1	
MO OJA			X.		X	X	X	X	X	X	X	X	X	X	_1_	<u>-</u>
MO-MEI		-	- <del>X-</del>		X	X	X	X	X	X.	X	X	X	X	-1-	
MO VEN			X		X	X	X	X	X	X	X	Х	X	X	+	
Relinquished		8.	Ca							/ידיי			- 1 i		<i>[</i>	,
Received	Printed Name HG	ech	PO PO	-	<u> </u>		(ے۔	he		<b>-</b>			0 12			(126
	Affiliation (A)		<u>*-</u> -		13.	<u> </u>		•	Date	e/Ti	me		<u>0`</u>	<u>د در</u>	- !	L 11.20
Other Notes:	1) Filter for dissolved i															
2) Please do not dilu	te limited volume samp	ies v	vhen	ena	cting	gprie	ority	list	(low	repo	ortin	g lin	nits a	are i	mpo	rtant).



#### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 2 of 2)

Sampling Date:	10/29/16							Proj	ect l	Num	ber:	201	6/1	7-1 (	Wet) Composites
Sampling Team:	S. GREER										··				
SAMPLE ID	DATE/TIME COLLECTED		Dissolved Inorganic Carbon and Dissolved Organic Carbon	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 62SCTR, 8270SIM-PAH, & 8270SIM-PHENOLS  Lab to select samples for MS/MSD where extra volume permits (all test
MO-SPA			X	X	X	X	X	Х	X	X	X	X	X	<b>-</b>	
MO-FIL			X	х	Х	X	- <del>X</del> -	-X-	X	X	X	X	X	-1-	
M <del>O SIM</del>			X	Х	X	Χ.	-X-	X	X	X	X	Х	X	1	
MO-MPK-			- X-	X.	_X_	X	X	X	<u>X</u>	<u>X</u>	X	X	X	1	
МО-ТНО	10/29/16 0852		X	X	X	Х	Х	Х	Х	Х	Х	Х	Χ	1	
MO-OXN	<del> </del>		<u> </u>	X	Χ.	X.	X	X	X	- <del>X</del> -	-X-	X	X	1	
MO-HUE			-X-	X	X	Х	-X-	X	X	-X-	-Х-	X	_X_	-1.	
								<u> </u>			<u> </u>				
Relinquished  Received		3. c 3. c 1cwl cel		ey	<u></u>			Dat	e/T	ime	i	é/z	ر ۹۷	116	1(20
Other Notes:	Signature Affiliation  1) Filter for dissolved m	ecu eculs ar		A-1	<u></u> <u>B-</u>	<u>C</u>	ıctiv		e/T		l	O-		Çe	16 11:20
2) Please do not dil	ute limited volume sample													mpo	rtant).



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season

Bacteriological - VCHCA Lab (SIDE 1 of 2)

Sampling Date Sampling Team		1 & B. MEINER	5	110		14011	inder	. 2010	5/17-2	(wei)
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter	Number of Bottles	NOTES
	ME-CC		X	X	X	X	X	X	2	2 DNA Filters
-	ME-SCR		X	X	X	X	X	X	2	2 DNA Filters
	ME-VR2		X	x	X	x	Y	y	2	2 DNA Filters
-	MO-GAM		X	X-		X	X	X	-2-	2 DNA Filters
_	MO OJA		X	X.		X	x	x	2	2 DNA Filters
-	MO MEI		X	X.		X	-X-	×	- 2	2 DNA Filters
	MO VEN		v	X	-	Х	Х	Ж	- 2	2 DNA Filters
iH	FB-1	11-20-16/2130	X	X		X	X		1	(MO-SPA)
elinquished	Printed Name	W.B. CAREY							1 0	
	Signature	W.B. carey								
	Affiliation	verpo"		Date	/Ti	me _	11	1211	16	0130
eceived	Printed Name	Lauren Stead								
	Signature	Luchil								
	Affiliation	PH Lab		Date	/Tir	ne _	n	21/1	u e	1: 30gm
ther Notes:	Perform bacteriologica	l analyses within 6 hours o	f sam	ple (	colle	ction	ı tim	ie		34
	1:10 1:100, and 1:1000	dilutions for Enterococcus	and	Е. с	oli					



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 2 of 2)

	11-20 \$ 1	4 B. MEINERS 1-21 2016							5/17-2	
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	Dittities	Number of Bottles	NOTES
	MO-SPA	11-20-16/2130	X	X		X	X	X	1	
	MO-FIL	11-20-16/2215	X	X		Х	Х	1	1	2 DNA Filters
	MO-SIM	N-20-16/2345	X	X		Х	Х	1	F	2-DNA Filters
	MO-MPK	11-20-16/2300	X	X		X	Х	1	1	2-DNA Filters
	мо-тно	11-21-16/0045	X	X		X	Х	1	¥	2-DNA Filters
	MO OXN		X.	X	_	X.	Y	У	- 2	2 DNA Filters
-	MO HUE		v	X		X.	-X	X	2	2 DNA Filters
Relinquished	Printed Name	W.B. CAREY								
	Signature	W.B. Carey								
	Affiliation	VCWPD		Date	e/Ti	me	H	-21	-16	0130
Received	Printed Name	Lauren Stead								
	Signature	Lucar								
	Affiliation	PH Carlo		Date	e/Tir	me	11	/21,	116	e 1:30 am
Other Notes:	Perform bacteriologic	cal analyses within 6 hours o	f sam	ple	colle	ctio	n tin	ne		
	1:10 1:100, and 1:100	dilutions for Enterococcu	s and	Е. с	oli					



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season

Bacteriological - VCHCA Lab (SIDE 1 of 2)

Sampling Date:	11/20/16	m, D. WILKINSON	-	Pro	ject :	Nun	nber	201	6/17	7-2	(Wet)
Sampling Team	A. ANSEL	M D. WILKINSON	)			_	_		_	_	
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter		Number of Bottles	NOTES
	ME-CC	23:25 11:016	X	X	X	X	X	X		2	2 DNA Filters
-3-	ME SCR	23:15 per back rouls	X	X	X	X	X	X		2	2 DNA Filters
-4	ME-VR2	(ot	X·	X	X	X	X	X		2	2 DNA Filters
	MO-CAM	21:45 11-20-16	X	X		X	X	E,		2	2.Dra Filters
	MO-OJA-		X	Х		Х	X	X		2	2 DNA Filters
	MO MEI		X	X		X	X	X		2	2 DNA Filters
	MO_VEN		Х	Х		Х	X	Х		2	2 DNA Filters
1	FB-1-		х	Х		X	X			1	
		7								Ī	
Relinquished	Printed Name Signature Affiliation Printed Name	ARNE A NEWPO Nadio (Jan	J	1	/Ti	me _		Zi	-16		12105 AM
ceceived		Mach Ohn	(	-1	na	D	_		_		
	Signature Affiliation	PH LAD	-	Date	:/Tit	me_	111	21	10		1265 AM
Other Notes:	Perform bacteriologic	al analyses within 6 hours of	sam	ple	colle	ctio	n tim	ıe	7		
	1:10 1:100, and 1:1000	dilutions for Enterococcus	and	Е. с	oli						



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 2 of 2)

Sampling Date: Sampling Team		-M, D.WILIGINSO	(V	Pro	ject ]	Nun	nber	: 201	16/1	7-2	(Wet)
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter		Number of Bottles	NOTES
	MO-SPA		Х	X	3	X	X	X		2	2 DNA Filters
	MO-FIL		X	X		X	X	X		2	2 DNA Filters
	MQ-SIM		X	X		X	X	X		2	2 DNA Filters
	MO-MPK-		X	X		X	X	X		2	2 DNA Filters
	MO-THO		X	X		X	X	X		2	2 DNA Filters
	MO-OXN	Z100 11/201/6	X	X		X	X	*		2	2 DNA Filters
-	MO-HUE	22:40 11.20-16	X	X		X	X	4		2	2 <del>DNA Filt</del> ers
Relinquished	Printed Name Signature					/					
	Affiliation	100		Date	e/Tir	me _			/		
Received	Printed Name Signature	ge side !	/	/	/						
	Affiliation	0		Date	:/Tir	ne _					
Other Notes:	Perform bacteriologic	al analyses within 6 hours of	sam	ple	colle	ctio	n tin	ne			
	1:10 1:100, and 1:1000	dilutions for Enterococcus	and	Е. с	oli						



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 1 of 2)

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)			Number of Bottles	NOTES
	ME-CC		X	X	X-	X	X	X		2	2 DNA Filters
ساديد بالمحجود	MARGA ME 122	11/20/16 23:40	X	X	X	X	X	X		2	2 DNA Filters
	ME-VR2		X	X	X	X	X	X		2	2 DNA Filters
	MO-CAM		X	X		X	X	X		2	2 DNA Filters
	MO-OJA	11/20/16 21:05	X	X		X	X	X		12	2 DNA Filters
	MO-MEI	11/20/16 22:25	X	X		X	Х	Х		1	2 DNA Filters
	MO-VEN	11/21/16 00:35	Х	Х		X	X	X		4	2-DNA Filters
10.00	EB-1		X	X		X	X			1	
		/ - 3 - 1									
elinquished	Printed Name Signature Affiliation	Stevens. Gre Str d VCWPD			/ :/Tir	7 ne	> 11	21	120	16	01:20 AM
eceived	Printed Name	Nadia Var	1	B	NE	2		, (			
	Signature	~ (	Ja				+	3			
	Affiliation	PH LAD		Date	/Tir	ne _		C	12	Ç	
her Notes:	Perform bacteriologica	l analyses within 6 hours o	f sam	ple o	olle	ction	ı tim	ie			
		dilutions for Enterococcus									



#### Ventura County Watershed Protection District

#### NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season Toxicity - ABC Laboratories

Side 1 of 1

				1.24		T					
SAMPLE ID	DATE/ COLLE		Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathead minnow (Pimephales promelas)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES
ME-SCR						X				2	Note 1, Note 2, Note 3
MO-CAM	11-20-16	2/145					X			2	Note 1, Note 2, Note 3
IO-HUE	11-20-16	22140				4		X		2	Note 1, Note 2, Note 3, Note 4
										-	
							- 4	= 1		-	
linquished	Printed Name	Sta	ren	5.	Gys	17				_	
	Signature	2	in	_	<del>}</del>	(2)	~	~	1 1		1908
	Affiliation	Vcms	Ono	0	7.7			in \\	24 3	C- 1	6 0842
ceived	Printed Name	<u>(d</u>	(V/18)	HB(	M	nyu	NU	_			
	Signature	- 6m	VU	01				- 1	3.6		1001
	Affiliation	ABC	U	BS.		_ I	Date/T	in:	11/	21.	14 0843
er Notes:	Note 1: Dilutio	ons - 6.25%,	12.5%	, 25%,	50%, 1	00%	Note:	2: Pleas	se exec	ute '	TIE if mortality > 50%
	Note 3: Notify										



6K21127

Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	1/20/16 + 11					-	F	roje	et N	lum	ber: <u>20</u>	16/17	-2 (	Wet) Grabs
Sampling Team:	_ see sid	VO.		-	_									
	DATE/TIME	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only analyze if hits							Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID ME-CC	COLLECTED 11/20/16 2325	2	1	2	3	1 1	1	+	+	+	+		<b>Z</b> 9	NOTES
ME SCR	11/20/16 2325	1,		2	3	1		=	1				Q.	AA, OW
ME-VR2	11/20/16 23:40	2	1	2	3	1	$\forall$	+	+				9	DRY
MO-CAM	11/20/16 21:45	2	1	2	3	1			+		+	H	9	LM,SG!
MO-OJA	11/20/16 21:05	2	1	2	3	1	= 1	- 11	+		+	H	9	AA,ON
MO-MEI	11/20/16 22:25	2	1	2	3	1	+	-	+	+	+	$\forall$	9	LM, SG
MO-VEN	1 6	2	1	2	3	1	77.	+	+	+	+	H	9	LM,5&
MO-OXN	111	2	1	2	3	1	+	+	+	+	+	H	9	AA, DW
FD-1	11/20/16 21:00	H	- 1		_		+	+	+	+	+	H		7/7,000
		_	-									ш	-	
Relinquished	Printed Name								_	_				
	Signature	_					_	_		_	-			1 /
	Affiliation			_	-	7	I D	Daye	) II	ne _	-	-	-	
Received	Printed Name	_		Λ	6	$^{7}C$		_			_	_		
	Signature		50	عور	_			_	_					
	Affiliation					_		Date/		ne				
Other Notes:	Travel blanks are only to	bea	maly	zed i	f sar	nnle	ham	e hite	of	MIL	BE or	2.01	770	
- WARE 1 10 (00)	EPA 624 has replaced E									TATT	טוט בוכו	4-CLE	VE	)

6K21127



#### Chain of Custody Record

# Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (*Contract AE17-001*)
Grabs - Weck Laboratories (SIDE 2 of 2)

SAMPLE ID MO-SPA	DATE/TIME	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)			if hits					Lab to select samples for MS/MSD where extra volume permits (all test
SAMPLE ID  MO-SPA   \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		8 6	nide (AS	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only analyze				Number of Bottles	methods) excluding travel blanks.
	COLLECTED						++	+			NOTES
MO-FIL 11/2	20/16 21:30	2	1	2	3	1	+	11		9	WBC,BM
	120/16 22:15	2	1	2	3	1		$\perp$		9	WBC, BM
MO-SIM	2-/16 27:45	2	1	2	3	1	100			9	WBC, BM
MO-HUE 11/2	20/16 2040	2	1	2	3	1				9	AA DW
MO-THO	21/16 00:45	2	1	2	3	1				9	WBC,BM
MO-MPK \\\\\/2	20/16 23:00	2	1	2	3	1				9	mBC,BM
Signa	nature	الع	存	ンで午	d	S	Date/	Time	1 /21	110	6 (345)
	nted Name	XI	-	517		1	SV			11	
		~	<u> </u>		Ĭ		) /				
_	nature	10	-	IA	0				11 -	_	10100
Affili	iliation WE	٦	-	LE	2	2	Date/	Γime _	11-21	<u>( – 1</u>	6 13:45
	vel blanks are only to								BE or 2-CLI	EVE,	
EPA	A 624 has replaced El	PA 5	24.2	for l	MTB	E and	2-Cleve		Joung	v16/	11/21/16 16:35



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#### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	11/21/		V.	< /		_		-		ject	Nur	nber	: <u>20</u> :	16/1	7-2	(Wet) Composites
Sampling Team:	DATE/TIME COLLECTED		Dissolved Inorganic Carbon and Dissolved Organic Carbon	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved			525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS  Lab to select samples for MS/MSD where extra volume permits (all test
ME-CC	11/21/16 1035		X	X	x	$\overline{}$	x	x	X	х	X	X	X		1	KH,SC
VEE-SCR			X		X	X	X	X	X	X	X	X	ж	X	4	DRY
Æ-VR2	11/21/16 105	2	x		х	X	x	x	x	Х	х	X	х	x	1	36
IO-CAM	11/21/16 08:4		x		X	х	x	X	X	x	X	х	X	X	1	LM,SG
IO-OJA	11/21/16 092		х		x	X	x	x	X	х	X	X	х	x	1	SG Priortylist Lide
MO-MEI	11/21/16 0959	3	х		x	X	x	х	х	X	x	x	x	х	1	SG Rianty Est Ltd
MO-VEN	11/21/2016 00:	25	х		х	х	x	х	X	x	x	x	х	x	1	LM, S&
~										-						
elinquished eceived ther Notes:	Printed Name Signature Affiliation Printed Name Signature Affiliation  1) Filter for dissolve	Ke Golden	TA DI	竹でこう	る	ab ab	)	<u>3</u>	Date	e/Tir	me _		liate	21		
	te limited volume sa	mples w	hen	enac	ting	prior	ity 1	ist (	low :	repo	rting	glim	its a	re in	npor	rtant).
							,					1		an	_	
	V		-	-					_	-		-	Jun	4		1.90



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#### Chain of Custody Record

#### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (*Contract AE17-001*)
Composites - Weck Laboratories (SIDE 2 of 2)

Sampling Date: Sampling Team:	11/21/16	1					Proj	ect l	Num	aber:	201	6/1	7-2 (	(Wet) Composites
SAMPLE ID	DATE/TIME COLLECTED	Dissulved Inneganic Carlon and Dissolved Decemic Carlon	Metals, total & dissolved (+ Hardness), & Barium (total only)		BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenola *	515.3-Herb 547-Gipphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Ai, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Ti, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PHENOLS  Lab to select samples for MS/MSD where extra volume permits (all test
MO-SPA	11/21/16 0840	X	_	X	X	X		X	X	_	X	X	1	KH,SC
MO-FIL	11/2/16 0900	x	x	x	X	X	X	x	x	x	x	x	1	KH,SC
MO-SIM	11/21/16 00:04	X	×	x	X	x	x	Х	x	х	X	x	1	WRC BM
мо-мрк	11/21/16 0935	X	X	x	x	x	x	x	X	x	x	x	1	KH, SC
мо-тно	11/21/16 1000	X	X	x	x	x	x	X	x	X	X	X	1	KH,SC "
MO-OXN	11/21/16 10:00	X	x	X	x	x	X	X	X	X	X	Ж	ì	LM,SG
MO-HUE	11/21/16 09:20	Х	X	X	X	X	X	X	X	x	x	X	1	LM,SG
						ě								·
Relinquished	Printed Name Signature Affiliation	Sec. Year		3			Dat	e/T	inacy					
Received	Printed Name		1	1	1	K	2	(		*	1.		_	
M.	Signature	7	2	_		- 1		1	_			_	-	
	Affiliation	70		_	_	_	Dat	e/T	ime	-	1		j.	
Other Notes:	1) Filter for dissolved met	als and p	ertor	m c	ondu	cliv	ty a	nalys	es ir	mme	diate	ely.		y the tage
2) Please do not dil	ute limited volume samples	when en	actin	g pri	ority	list	(low	rep	ortir	ng lic	nits	are i	mpo	ortant).



# Ventura County Watershed Protection District

# NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (*Contract AE17-001*)
Equipment - Weck Laboratories

	<b>EQUIPMENT</b>	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L wide neck	carboy and lid	3?			Please place tape or plastic bag over top and note on wa if bottle was cleaned with methanol.
Blue cube cooler			0	13	
Black bags				13	
20 L narrow neck	carboy, 2 lids, attachment assembly	Ю? 			Please place tape or plastic bag over top and note on wrif bottle was cleaned with methanol.  (3-total glass corbas)
Relinquished	Printed Name Kell	Laks	>	Date/Time	11/21/16/1345
Received	Printed Name Signature	Str	ナ	3   S	(12110 10 10



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season

Bacteriological - VCHCA Lab (SIDE 1 of 2) Sampling Date: 12/15/16 Project Number: 2016/17-3 (Wet)

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter		Number of Bottles	NOTES
	ME-CC	23:20	X	X	X	X	X	X		2	2 DNA Filters
	ME-SCR		X	-X-	X.	x	X	Х		2	2 DNA Filters
	ME-VR2	*	X	X	х	X	-X-	X		2	2 DNA Filters
	MO-CAM	21:45	X	X		X	X			1	
	MO <del>-OJA</del>		x	X		х	X			1	
	MO-MEI		x	x		X	X			1.	
	MO-VEN		X	X		x	X	1		1	
	FB-1 >		X-	X		X	X-			1	
	FD-1	21:45	×	×		×	×			1	
inquished	Printed Name Signature Affiliation	Lara Medi Lay Mr		Date	/Tir	ne	17	1	6/	16	0:17
ceived	Affiliation Printed Name	Madia Ugn	P		/Tir		12	11	6/1	6	0:15

Relinquished	Printed Name	Lara Medles
	Signature	Lau Mir
	Affiliation	WPD Date/Time 12/16/16 0:15
Received	Printed Name	Nadia Uan Buren
	Signature	M. R.
	Affiliation-	9H LAD Date/Time 12/6/6 CC/5
Other Notes:		ogical analyses within 6 hours of sample collection time

1:10 1:100, and 1:1000 dilutions for Enterococcus and E. coli



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 2 of 2)

Sampling Date:	12/15/16 Lan Med		_	Pro	ject l	Nun	ber:	201	16/1	7-3 (	(Wet)
Sampling Team:	Laa Mel	Ker & BO					_	-			
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter		Number of Bottles	NOTES
	MO SPA		X	X		х		1		1	
ļ.,	MO-FIL		x	X		х	X			1	
	MO-SIM		X	X		X	X			1	
	MO-MPK		X	X		X	X		-	1 -	The state of the s
	мо-тно		X	X		X	X			1	
	MO-OXN	20:30	X	X		Х	X			1	
	MO-HUE	19:15	X	X		X	X	U		1	
Relinquished	Printed Name						/				
1	Signature				/	1			/	/	
	Affiliation		/	Date	e/Ti	me	1	/			
Received	Printed Name			5		/					
	Signature	1 4	20	/							
	Affiliation			Date	e/Ti	me .					
Other Notes:	Perform bacteriologic	al analyses within 6 hours	of san	nple	colle	ctio	n tin	ne			
		dilutions for Enterococcu									



# Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 1 of 2)

Sampling Date: 12/15/2016 Project Number: 2016/17-3 (Wet)

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX	DNA Filter		Number of Bottles	NOTES
	ME-GC		X	X	X	X	Х	X		2	2 DNA Filters
	ME-SCR		X	X	X	X	X	X		2	2 DNA Filters
	ME-VR2	12/15/2016 21:50	X	X	X	X	X	X		2	2 DNA Filters
	MO CAM		X	X		X	X	$\Pi$		1	
	MO-OJA	12/15/2016 20:10	X	X		X	X			1	
	MO-MEI	12/15/2016 21:00	Х	X		х	X	ΙĪ		1	
	MO-VEN	12/15/2016 18:50	Х	Х		Х	X	İ		1	
9	A-B-I		Х	Х		Х	Х			1	
	FD-1		×	x		×	×			1	
linquished	Printed Name Signature Affiliation	Staven S. Freeze Steven S. B VCWPD	~_	Date	/Tir		12/	15/	20	.16	io:46 pm
ceived	Printed Name	Cameran Cl	150	12	e	_					
	Signature	Count -	1	e	2		1	1	1	11.	100
	Affiliation	1011 01	- 1	Date	/Tin	ne	18	2//	5/	16.	10 47 PM





Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 1 of 2)

Sampling Date:	12-15-16	Project Number: 2016/17-3 (Wet)	
Sampling Team:	WR CAREY & N. MARZIA	1	

LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter		Number of Bottles	NOTES		
	-ME-GC		X	100			X	X		2	2 DNA Filters		
	-ME-SCR		X	-X-	X	X	X	X		-2-	2 DNA Filters		
	ME-VR2		X	-X	X	X	X	X		2	2 DNA Filters		
	MO-GAM-		-X-	Х		-X-	X			4			
	MO OJA		X.	X.		x	X.			1	-		
	MO-MEI		X	X		·X	X	-		1	and the second of the second		
	MO-VEN		X	X.	-	X	Х			1_			
	FB-1	12/15/16 1845	X	Х		Х	Х			1	(MO-SPA)		
	FD-1		×.	×		*	~			+			
elinquished	Printed Name Signature Affiliation	W.B. CAREY W.B. CAVREY VCWPD		Date	e/Tir	me _	12	L-15	T-1	6 /	1035		
eceived	Printed Name Signature	Madia Van	^	7	B	X	ev			_			
her Notes:	Affiliation  Date/Time 12.15 6  Perform bacteriological analyses within 6 hours of sample collection time  1:10 1:100, and 1:1000 dilutions for Enterococcus and E. coli												



## Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season

Bacteriological - VCHCA Lab (SIDE 2 of 2)

Sampling Date:		4	-	Pro	ject 1	Num	iber	20.	10/	17-3	o (wet)		
Sampling Team	W.B.CAREY	\$ D. MARZIO							_				
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter		Number of Bottles	NOTES		
UNZI	MO-SPA	12/15/10 6:45 Pm	X	X		X		F		1			
	MO-FIL	12/15/16 7:40 A	х	х		х	х			1			
ž	MO-SIM	12/15/16 9:00 Pm	X	Х		х	х		1	1			
	MO-MPK	12/15/16 8:30 PM	х	х		x	x			1			
	мо-тно	12/15/16 9:45PM	X	Х		Х	х			1			
	MO-OXN		X	X		X	X			-1			
	-MO-HUE		X	X	and the same	X	X		-	-1			
	-						-	A.	1	1			
Relinquished	Printed Name	W.B. CAREY											
	Signature	W.B. Carey											
	Affiliation	VCWPD		Dat	e/Ti	me	_ (:	2-1	5-	-16	/ 1035		
Received	Printed Name												
	Signature	Side											
	Affiliation	Date/Time											
Other Notes:	Perform bacteriologic	cal analyses within 6 hours of	san	nple	colle	ectio	n tir	ne					
A	1:10 1:100, and 1:100	0 dilutions for Enterococcus	and	E. 0	oli								



GL17025

#### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	12/15/	<i>ا</i> ل						Proj	ect Nu	ımber	:: <u>201</u>	6/17	-3 (	Wet) G1abs
Sampling Team:	WBC,D	M; 56,	DW	·;	<u>L</u> /\	1,B	Μ							
SAMPLE ID		/TIME ECTED	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only analyze if hits						Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
ME-CC		. 23:20	2	1	2	3	1						<b>Z</b>	NOTES
ME-SCR			2	1	_2_	-3-	<del>-1-</del>		_	+-			Ò	LM.BM
ME-VR2	12/15/16	21:50	2	1	2	3	1						9	SG,DW
MO-CAM	12/15/16		2	1	2	3	1						9	LM, BM
МО-ОЈА	12/15/16	20:10	2	1	2	3	1						9	56,0W
MO-MEI	12/15/16	-	2	1	2	3	1				П		9	SG, DW
MO-VEN	12/15/16	(8:50	2	1	2	3	1						9	SG, DW
MO-OXN	12/15/16	20:30	2	1	2	3	1						9	LM,BM
FD-1	12/15/16	21:45	2	١	2	3	١	-					প	LM,BM
Relinquished	Printed Nan	ne												
-	Signature		_	-				30				_	_	
	Affiliation					_/	<u> </u>	Date	e/Time			_		
Received	Printed Nan	ne C	_	_	<u>ら、</u>	<u> </u>				-				
	Signature	ç	$\underline{\mathscr{C}}$											
_	Affiliation			_				Date	:/Time	<u> </u>				
Other Notes:	Travel blank	s a <del>re o</del> nly to	be a	naly	zed :	if sar	nple	have hi	ts of M	(TBE	or 2-	-CLE	VE	)
	EPA 624 ha	s replaced EI	PA 5	24.2	for	MT	3E a	ıd 2-Cle	ve	٨N	4,~	પક દિ	<u>251</u>	



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#### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 2 of 2)

Sampling Date:	12/1	5/16						Project Number: 2016/17-3 (Wet) Grabs							
Sampling Team:	WBC, D	<u>m; sg,</u>	D^	J •	<u> </u>	^, E	<u>}</u> ~								
	DATE		Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only analyze if hits	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.  NOTES							
SAMPLE ID	DATE, COLLE	ECTED	Oil (	Cyar	GRC	MT	Trav	Z NOTES							
MO-SPA	12/15/14	1845 1940 1940	2	1	2	3	1	9 WBC, DM							
MO-FIL	12/15/14	1940 78468m	2	1	2	3	1	9 WBC, DM							
MO-SIM	12/15/16	21:00 91001PM	2	1	2	3	1	9 WBC, OM							
MO-HUE	12/15/16	19:15	2	1	2	3	1	9 LM, BM							
МО-ТНО	12/15/10	21:45	2	1	2	3	1	9 WBC,DM							
MO-MPK	12/15/16	2030 Besalm	2	1	2	3	1	9 WBC, DM							
		- "													
Relinquished	Printed Nan	ne KE	L	ン	н	ΔH	ıS								
	Signature			#	გ_										
	Affiliation		_	<u>УС</u>	W	PD		Date/Time 12/16/16/ 1420							
Received	Printed Nam	ne <u>Llo</u>	Ŋ	<del>,</del>	4	> r	٦ <i>٧</i> ,	las '							
	Signature	75		<u>~</u>	<u> </u>	,									
	Affiliation	555	e r	4	a			Date/Time 12/16/16/1420							
Other Notes:	Travel blank	s are only to	be a	naly	zed i	if sar	mple	nave hits of MTBE or 2-CLEVE)							
	EPA 624 ha	replaced El	PA 5					1 2-Cleve							
		HHV		1	7	15	5	13/16/16							
Ventura Co Manageme	ountywide Storn ent Program <b>2</b> 01	wajer Quality 6/17 Annual F	Керо	rt			Page	DE - 36 Attachment D Appendix E							



#### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 2 of 2)

Sampling Date:	1	2/16/16						_	Proj	ect l	Num	ber:	201	6/1	7-3 (	Wet) Composites
Sampling Team:	KH	DM; 50,	<u>, wa</u>	<u></u>	Μ	<u>B/</u>	<u> </u>									
SAMPLE ID		ATE/TIME DLLECTED		Dissolved Inorganic Carbon and Dissolved Organic Carbon	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS  Lab to select samples for MS/MSD where extra volume permits (all test
MO-SPA	+	6/16 0853		X	X	X	-	X	X	X	X	X	X	X	1	KH,DM
MO-FIL		0920		х	Х	X	X	Х	Х	X	X	X	X	X	1	KH, DM
MO-SIM		1020		X	X	X	X	Х	X	X	X	X	X	X	1	KIT, DM
MO-MPK		0950		X	X	X	X	X	X	X	X	X	X	X	1	KH, DM
МО-ТНО		1100		X	X	X	X	Х	X	X	X	X	X	X	1	KH, DM
MO-OXN		o935		X	X	X	X	X	X	X	X	X	X	X	1	LM.BM
MO-HUE		1018		X	X	X	X	X	X	X	X	X	X	X	1	LM,BM
Signature Affiliation  Printed Name  KELLY HAHS  Signature  Affiliation  VWPD Date/Time  12/16/16/14/20  Signature  Signature  Affiliation  Date/Time  Date/Time																
Other Notes:	1) Filt	er for dissolved n	netals ar	nd pe	erfor	m cc	ondu	ıctivi	ty ar	nalys	es in	nme	diate	ly.		•
2) Please do not dilu									_						npo	rtant).
		<b>✓</b> \														



Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season (Contract AE17-001)

(della Ocel

Composites - Weck Laboratories (SIDE 1 of 2)

12/16/16 Project Number: 2016/17-3 (Wet) Composites Sampling Date: KH SM DM; SG. DW; LM BM Sampling Team: Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, total & dissolved (+ Hardness), & Barium (total only) Dissolved Inorganic Carbon and Dissolved Organic Carbon Se, Tl, Zn, Hg Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics 8270SIM-PAH, 8270SIM-Phenols \* Na. K COD, MBAS, TKN, Ammonia, TOC Cond 608 include alpha- & gamma-chlordane ALK, CLO4, Turb, TDS, TSS, VSS, \* Same extraction with NO3-N, Total Chlorine Residual Phosphorus-P Total & Dissolved low-level spike for 3 547-Glyphosate, 525.2 Reg+507, 525-OPP-LL methods: 625CTR. DRO/ORO (EPA 8015B) 8270SIM-PAH, & 8270SIM-PHENOLS Number of Bottles Lab to select samples for MS/MSD where extra volume permits (all test Metals, BOD, DATE/TIME SAMPLE ID COLLECTED **NOTES** X X X X X X ME-CC 12/16/16 10:55 LM.BM X ME-SCR DRY X  $\mathbf{X}$  $\mathbf{x}$ X X X  $\mathbf{X}$  $\mathbf{X}$ X ME-VR2  $\mathbf{X}$  $\mathbf{X}$ 1 1035 SG.DW X X X  $\mathbf{x}$  $\mathbf{X}$  $\mathbf{X}$ Х  $\mathbf{X}$ MO-CAM 1126 LM.BM X X X  $\mathbf{X}$  $\mathbf{X}$  $\mathbf{X}$ X 0936  $\mathbf{X}$  $\mathbf{X}$  $\mathbf{X}$ X MO-OJA SG.DW x X X  $\mathbf{x}$ X X  $\mathbf{x}$  $\mathbf{x}$ x X X MO-MEI 1000 SG, DW X  $\mathbf{X}$  $\mathbf{X}$ X  $\mathbf{x}$  $\mathbf{X}$ Х  $\mathbf{X}$  $\mathbf{x}$  $\mathbf{X}$  $\mathbf{X}$ MO-VEN 1 SG, DW 1130 Relinquished Printed Name SEE SIDE Noate/Time Signature Affiliation Received Printed Name Signature Affiliation Date/Time 1) Filter for dissolved metals and perform conductivity analyses immediately. 2) Please do not dilute limited volume samples when enacting priority list (low reporting limits are important).



(eL1606)

# Ventura County Watershed Protection District

#### NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001) **Equipment - Weck Laboratories** 

Sampling Date: Sampling Team:	12/16/16 KH		<del></del> -	Project Number: 2016/17-3 (Wet) Cleaning										
	EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES								
18.5 L wide neck			5			Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.								
Blue cube cooler				13										
Black bags				13										
20 L narrow neck	carboy, 2 lids, attachment asse	embly	7			Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.								
Relinquished	Printed Name Signature Affiliation	Vents KELLY		<b>V</b>	ime	12/16/16/1420								
Received	Printed Name Levy Signature Affiliation	1		<b>&gt;</b> Date/Ti	ime <u>L</u>	2/14/14/1420								
Other Notes:					****	ottles cleaned with methanol.								



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season

Bacteriological - VCHCA Lab (SIDE 1 of 2) |

Sampling Date:	1-5-17				Project Number: 2016/17-7 (Wet)								
Sampling Team:	W.B. CAREY	L. MEEK	ž A								_		
LAB USE ONLY	SAMPLE ID		C/TIME ECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter		Number of Bottles	NOTES	
	<del>ME-CC</del>			X	X	X	X	X	X		2		
	ME-SCR	1/5/17	9:30	X	X	X	X	X	Х		2		
	ME-VR2			X	X	X	X	X	X	P 4	-2-		
	-MO-CAM			X	X		X	X	X		-2-		
	M <del>O-OJA</del>			X	X		X	X	X		2		
	MO-MEI			X	X		X	X	X		2-		
	MO VEN			X	X		X	X	X		2		
	FD 1			X	-X-		X	X			-1-		
Relinquished	Printed Name Signature Affiliation	Jara Jara WPD	Meek M	N	Date	e/Ti	me .	1,	15	117		10:45	
Received	Printed Name Signature Affiliation	SALU P. FL-Ly	HORY Hold An	cu	Sate	PK	A C	PA I	1.3	57	17	10,50	
Other Notes:	Perform bacteriological analyses within 6 hours of sample collection time												
	1:10 1:100, and 1:100	0 dilutions for	Enterococcu	s and	Е. с	oli							



#### **Ventura County Watershed Protection District**

#### NPDES Stormwater Monitoring Program

#### Project: NPDES Stormwater Wet Season

**Toxicity - ABC Laboratories** 

Side 1 of 1

		elt ( <i>Atherinops</i>	silverside ( <i>Menidia</i>	elp (Macrocystis	sea urchin ouratus)	fathead minnow	id (Ceriodaphnia	alga (Raphidocelis	kets				
SAMPLE ID	DATE/TIME COLLECTED	Chronic toxicity - topsmelt (Atherinops affinis)	Chronic toxicity - inland silverside (Menidia beryllina)	Chronic toxicity - giant kelp (Macrocystis pyrifera)	Chronic toxicity - purple sea urchin (Strongylocentrotus purpuratus)	Chronic toxicity - fathea (Pimephales promelas)	Chronic toxicity - daphnid (Ceriodaphnia dubia)	Chronic toxicity - green alga (Raphidocelis subcapitata)	Number of 5-Gallon Buckets	NOTES			
ME-SCR	1/5/17 4:30	-0			X				2	Note 1, Note 2, Note 3			
									Щ				
						Ť							
elinquished	Printed Name Losa Meekles Signature Affiliation  Date/Tim 1/5/17												
eceived	Printed Name	() andi	. 1 1	elli		<i>Duce</i> , .		13/	-	Tierr			
ccivcu	1	0307630	700										
	Signature  Affiliation ABC Labs Date/Tim 01/05/17 11/1												
ther Notes:	Note 1: Dilutions - 6.25%, 12.5%, 25%, 50%, 100% Note 2: Please execute TIE if mortality > 50%												
2101 1 10 1004	Note 3: Notify Distr								Jule	TILL II MOTUMELY > 50/0			
	Note 4: If salinity >2								~]+ ··	1111 77 77			



## Ventura County Watershed Protection District

7A05114

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (*Contract AE17-001*)

Grabs - Weck Laboratories (SIDE 1 of 1)

Sampling Date:	1-5-17		Project Number: 2016/17-4 (Wet) Grabs													
Sampling Team:	W.D. CARE	γţι	^	1EE	ke i	<u> </u>										
	DATE/TI	ME	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only analyze if hits					and the second s			Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID	COLLECT		Oil	Cya	GR	MT	Trav					<u> </u>			Z	NOTES
ME-SCR	1/5/17-4:	<del>10</del>	2	1	2	3	1								9	
	09	30 W3c														
																*
															_	10
													H			
		1														
Relinquished	Printed Name	toa		4	ec	16	4		W.	R.	C	AR	ŧΥ			
	Signature	200	1	-	M	<u> </u>	<b>3</b>		W	<i>.</i> B	- 1	Ca	nu	1_		
	Affiliation	<u> </u>	D						Dat	e/Ti	me		0	1-	<u> </u>	17/1420
Received	Printed Name		7		6.	ر ح	N			<b>,</b>						
	Signature	7	Į		1			Ĺ	Z			人				
	Affiliation	wee	K	10	65				Dat	e/Ti	me		پسر ا	5-1	7	220
Other Notes:	Travel blanks are	e only to	be a	nalva	zed i	f sar	nple	s ha	ve hi	ts of	ғ мп	TBF.	or 2	-CI	EVF	
	EPA 624 has rep															,
				San	nct	m/b	_	11	sli	<u> </u>	<sub>2</sub> 0	3	1	۰. ۲۰۰	_	



#### Ventura County Watershed Protection District

7A05096

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 1 of 2)

Sampling Date:	₩ 1-5-17							_	Proj	ect l	Nun	nber	201	6/1	7 <b>-8</b> (	Wet) Composites
Sampling Team:	W.B. CAREY		L.,	ME	EL E	A										
SAMPLE ID	DATE/TIME COLLECTED		d Dissolved Inorganic Carbon and Dissolved Organic Carbon	NO3-N, Total Chlorine Residual	Metals, total & dissolved (+ Hardness), & Barium (total only)	cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	\$ 525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS  Lab to select samples for MS/MSD where extra volume permits (all test
ME-CC	, oqio wi	<u></u>	X	X	-X	X	X		<u> </u>	X	Y.	X	Ж	X	1	
ME-SCR	1-5-17/0900		X		X	X	X	X	X	X	X	X	X	X	1	
MF-VR2			X		X	X	X	X	X.	X	X	X	X	X	1-	
MO-CAM			X		X	X	X	X	X.	X	X	X	Х	X	1	
MO OJA			X		X	X	X	X	X	X	X	X	X	X	-1-	
-MO-MEI		_	-X	,,	X.	X.	Y.	X	X	X	X	-X	X	X	1-	
MO VEN			X		X	X	X	X	X	X	X	X	-X-	X	-1-	
.,																
Relinquished Received	Printed Name Signature	١ - ١	CO	y.					) 2	e/Ti	_	2		-r;		7 220
Other Notes:	1) Filter for dissolved r													-		Tanylmon 1/5/17 Xe03
2) Please do not dilu	te limited volume samp	ies v	vhen	ena	cting	pric	ority	list (	low	repo	ortin	ıg lir	nits a	ire ii	npo	rtant).



#### Ventura County Watershed Protection District

#### NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (<u>Contract AE17-001</u>)
Equipment - Weck Laboratories

Sampling Date:	1-5-17			Project	Numbe	r: 2016/17-7 (Wet) Cleaning								
Sampling Team:	W.B.CAREY & L.M	EEKER	<u> </u>		· · ·	****								
		Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required										
	EQUIPMENT	_ ರ	Cle	N <sub>0</sub>		NOTES								
18.5 L wide necl	k carboy and lid	151				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.								
Blue cube cooler		(	-											
Black bags		(												
20 L narrow necl	s carboy, 2 lids, attachment assembly					Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.								
Relinquished	Printed NameW. 8. CAR	ΕY				·								
	Signature W.B.Corv Affiliation UCWPO	uy	<del></del>	Date/T	ime <u>(</u>	-5-17/1420								
Received	Printed Name Cark	22 <u>)</u>		7										
	Signature	ignature (indicate)												
	Affiliation Weekel	<u> 645</u>		Date/T	ime	1-5-17 220								
Other Notes:	* Please clean with detergent, nitri methanol cleaning to avoid organi					e after methanol step (allow to air dry after ottles cleaned with methanol.								



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Wet Season Bacteriological - VCHCA Lab (SIDE 1 of 4)

Sampling Date:			(5151:10]
Sampling Team: 1	ARA MEELER,	SEAN CASEY	Project Number: 2016/17-5(Wet)

LAB USI ONLY	E SAMPLE ID	Total Coliform (25 Tube Method - MPNX)  Fecal Coliform (25 Tube Method - MPNX)  Enterococcus (Tray Method - WQ IDEXX)  Total Coliform (Tray Method - WQ IDEXX)  DNA Filter  Number of Bottles
	ME-SCR	NOTES
	ME-VR2	1/19/17-3:30 X X X X X X Z 2
	MO-CAM	XXXXXX
	M <del>O-OJ</del> A	1/19/17 2:35 X X X X X X
	MO MEI	XXXX
	MO-VEN	X X X X
	MO-HUE	1/19/17 1:05 X X X X X X X X X X X X X X X X X X X
nquished	Printed Name	364 (157)
	Signature	Bran Casey
		VCWPN
ived	Printed Name	Date/Time 1/19/17 09:15
	Signature	and the state of t
	Affiliation T	· VI
	a	nalyses within 6 hours of sample collection time
1:	10 1:1 <mark>00, and</mark> 1:1000 dil	utions for Enterococcus and E. coli



Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program
Project: NPDES Stormwater Wet Season
Bacteriological - VCHCA Lab (SIDE 1 of 2)

Sampling Date:	1/19/200	t		Pro	ject :	Nun	nber:	201	6/17	5	Wet)
Sampling Team	: Steven	S. Green , C	) ea	1	W.				H	_	
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filter		Number of Bottles	NOTES
	Market .		V	V	-11	-11	28	A		4	
	ME-SCR		X	X	X	X	X	X		-2,	
	ME-VR2	1/19/2017 0310	X	X	X	X	X	X		2	
	MO-CAM		X.	X	-	X	-X-	'n		1	
	MO-OJA	1/19/2017 0115	X	X		X	X			1	
	MO-MEI	1/19/2017 0200	X	X		X	X			1	
	MO-VEN		X	X		X	X		-	1	
	MO-HUE		X	X		X	-X-			•	•
elinquished eceived	Printed Name Signature Affiliation Printed Name Signature Affiliation	Steven S, 6 Steven S, 6 Steven S, 6 VouPD, OURTE Nadia W PH LAB	es	Date			/ C'	1	201	7	e 0525 1 00525 -
ther Notes:	Perform bacteriologica	al analyses within 6 hours o	f sam	ple o	colle	ctio	n tim	ie	-5		
		dilutions for Enterococcus									



# Ventura County Watershed Protection District 7A0063

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of 1)

Sampling Date:		1/19/201	7					Pr	oject	Nun	nber:	2016/	17-5	(Wet) Grabs
Sampling Team:	<u> </u>	1,5c ; 5G	<u>D</u>	N										80 A 40 -
		ATE/TIME	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only analyze if hits						Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
SAMPLE ID  ME-SCR	<del>                                     </del>	OLLECTED	2	1	2	3	1	+	+	-	H	+	<b>Z</b>   9	NOTES
ME-VR2	11/17	117 03:30	2	1	2	3	1	+	╁┈				9	LM, SC
MO-OJA		03:10	2	1	2	3	1	+	+	-	H		9	SG, DW
MO-MEI		02:00	2	1	2	3	1		$\top$				9	56,0W
MO-CAM		02:35	2	1	2	3	1	+					9	LM,5C
MO-VEN		01:55	2	1	2	3	1	$\dagger$	1	<u> </u>			9	LM,5C
MO-HUE		/ 01:05	2	1	2	3	1						9	LM, SC
Relinquished	Printed	l Name	K	EL	<u>L</u>	<b>Y</b>	HA	HS						
	Signatu Affiliat		d VCI	Mr.	で	<u>~</u>	1	D;	ate/	Гіте			/19	117/1430
Received	Printed	l Name	W.	NE	:	UT	7v							
	Signati	\												- 10 a
	Affiliat	tion Es	50	7,1	A			Da	ate/T	Гimе	<u>                                       </u>	9-/7		2:20,n
Other Notes:	$\rightarrow$	blanks are only to 24 has replaced EI		_								or 2-C		
Ventura Cou Managemen	ntyvide Trogran	Stormwater Quality n 2016/17 Annual R	epor	t		I	Page	ř¶-ti	s/	( ()				Attack men D Appendix E



### Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program

GFOPIAF

Project: NPDES Stormwater Wet Season (Contract AE17-001)

Composites - Weck Laboratories (SIDE 1 of 1)

Sampling Date:		01	/19/20	21-	7					_	Pro	ject l	Nun	ber	<b>2</b> 01	6/1	7-5 (	Wet) Composites	
Sampling Team:	S	<u>G- 1</u>	DW K	Η,	N	کد	- 1	KH	کہا	<u>_</u>									
	}	· ·										:						Metals by200.8 Dissolved: Sb, A Be, Cd, Cr, Cu, F Se, Tl, Zn, Hg	Ag, Al, As,
					1 Organic Ca		Barium (total only)			nolics		ls *				-		Metals by 200.7 (only): Ca, Mg Hardness calc. Na, K	(for
					ssolve		ss), &		ia, TO(	0), Pbe		-Pheno	_ پي	-		Cond		608 include alpl	
					Dissolved Inorganic Carbon and Dissolved Organic Carbon	NO3-N, Total Chlorine Residual	dissolved (+ Hardness),		S, TKN, Ammonia, TOC	), Cl, F, SO4 (300.0), Pbenolics	Phosphorus-P Total & Dissolved	8270SIM-PAH, 8270SIM-Phenols	547-Glyphosate, 608-CTR	5-OPP-LL	. 8015B)	TDS, TSS, VSS,	<b>1</b>	* Same extraction low-level spike methods: 625CT 8270SIM-PAH, 8270SIM-PHENG	on with for 3 TR, &
			E/TIME		ssolved Inorgan	D3-N, Total Ch	Metals, total & dis	Cr+6	BOD, COD, MBAS,	NO3+NO2 (353.2),	osphorus-P To	625-CTR, 8270SII	515.3-Herb 547-G	525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	ALK, CLO4, Turb,	Number of Bottles	Lab to select sar MS/MSD where volume permits	extra
SAMPLE ID	١.		ECTED		_	ž						-						NOTE	<u>s</u>
ME-SCR	1	يلد	7 13:15		X		X	X	X	X	X	X	X	X	X	X	1	KH, SC	
ME-VR2	*	07			X		X	X	X	X	X	X	X	X	X	X	1	*09:45	KH, WBC
MO-OJA	<del>                                     </del>	<del> </del> —	0400		X		X	X	X	X	X	X	X	X	X	X	1	SG, DW	
MO-MEI	$\vdash$	$\vdash$	0420		X		X	X	X	X	X	X	X	X	X	X	1	SG, DW	
MO-CAM			10:25		X		X	X	X	X	X	X	X	X	X	X	1	KH, WBC	
MO-VEN		_	10:50		X		X	X	X	X	X	X	X	X	X	X	1	KH, WBC	
MO-HUE	1	<u> </u>	12:25		X		X	X	X	X	X	X	X	X	X	X	1	KH, SC	
· .	<u> </u>		<u></u> l	•			•							j					
Relinquished	Printe	ed Na	ame		ĸ	<u>(2)</u>	<del>-</del> -	7_	+	A	15								
	Signa	ture		(	lok	<u>#</u>	$\overline{A^{\bar{c}}}$	Š_										~ <u>.</u>	
	Affilia	ation		VC	<b>∧</b> \$	D)					Date	e/Ti	me .	١	/10	1/1	7	/1430	
Received	Printe	ed Na	ıme	پر آلا	Ŋī.		11	KN	<u>(</u>									,	
	Signat	ture		<b>=</b> /												,			
	Affilia	ation	2	556	<b>-7</b> 07.6	AC					Date	e/Ti	me _		1/1	4	()	2,20	
Other Notes:	1) Fila	teny fo	r dissolved n	netal	ls an	d pe	rfori	n co	ndu	ctivi	ty an	ıalys	es in	ıme	diate	ly.			
2) Please do not dilu	te limi	ted v	olume sampl	es w	hen	enac	ting	pric	ority	list (	low	repo	ortin	g lin	iits 2	re ir	npoi		
	1/	140-min	· <del>-</del>					7	<u>0~</u>	q m	か		H	7/1	}	ΙŲ	<u>35</u>	1.0	<i>C</i>
			rmwater Qual 016/17 Annua		port			F	Page	DE -	- 48					ļ	1/0	Attachment D	Appendix E



#### Ventura County Watershed Protection District

#### NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Wet Season (*Contract AE17-001*)
Equipment - Weck Laboratories

Sampling Date: Sampling Team:	01/19/2017			Project	t Number: 2016/17-5 (Wet) Cleaning
	EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L wide necl		И			Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Blue cube cooler		- <b>I</b>		7	To occor was dealed with included.
Black bags				77	
20 L narrow necl	k carboy, 2 lids, attachment assembly	3			Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Relinquished	Printed Name  KELL  Signature  Affiliation  VWOD	HP2	<u>AHS</u>	Date/T	Time 1/19/17/1430
Received	Printed Name Signature Affiliation	JANI(		Date/T	Time 1/19/17 2:007
Other Notes:					not rinse after methanol step (allow to air dry after rd the bottles cleaned with methanol.

Ventura Countywide Stormwater adalis Management Program 2016/11 Anayal Report Page DE - 49

1-19-17 Attachment Appandi E



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Dry Weather Bacteriological - VCHCA Lab (SIDE 1 of 1)

Sampling Date	e:5/4/1	7	_	Pro	oject	Nur	mber	r: <u>201</u>	6/17-0	6 (Dry)				
Sampling Tear	m:K,HAF	5, S. GREER	-											
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX )	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filters	Number of Bortlee	NOTES				
	ME-SCR	5/4/17 0940	X	X	X	X	X	X	2					
	MO-SPA	-DRY	*	X	X	-X-	X	X	+	2 DNA Filters				
	MO-FIL	5/4/17 0820	X	X	X	X	X	X	2	2 DNA Filters				
	MO-OXN	111950	X	Х	Х	Х	X	X	2	2 DNA Filters				
	MO-VEN	1050	X	X	X	Х	X	X	2	2 DNA Filters				
elinquished	Printed Name Signature Affiliation	KELLY HAHS		Date	/Tin		_	5/	4/17	, <u> </u>				
eceived	Printed Name Signature Affiliation	Nadia West  PHLAD Date/Time 1341 (MCMI)												
ther Notes:	Perform bacteriologica	al analyses within 6 hours of	samp	ole co	ollec	tion	time	2						
- 3	1:10 1:100, and 1:1000	dilutions for Enterococcus a	nd I	E. co	li									



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Dry Weather Bacteriological - VCHCA Lab (SIDE 1 of 1)

Sampling Date	= 5/18/17				Pro	ject	Nun	nber	: 201	16/17	-6 (	(Dry)
Sampling Team	E. HATS,	W.B	CAREY									
LAB USE ONLY	SAMPLE ID		ATE/TIME OLLECTED	Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filters		Number of Bottles	NOTES
	ME-CC	5/18	17 1040	X	X	X	X	X	X			2 DNA Filters
	MO-MPK		0810	X	X	X	X	X	X			2 DNA Filters
	MO-SIM		0915	X	X	X	X	X	X			2 DNA Filters
	мо-тно		1010	X	X	X	X	X	X			2 DNA Filters
	MO-CAM	\	/ 11:25	X	X	X	X	X	X			2 DNA Filters
											1	
Relinquished	Printed Name Signature Affiliation		ELLY HA		Date	/Ti	me _	9	5/1	8/1	7	
eceived	Printed Name Signature Affiliation		Scel Y. Ban J. J. J. S.	jour	gate	4	ne _		5/	181	1/2	12:08
ther Notes:	Perform bacteriologic 1:10 1:100, and 1:1000				_		ction	ı tim	.e			



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Project: NPDES Stormwater Dry Weather Bacteriological - VCHCA Lab (SIDE 1 of 1)

Sampling Date:	5/23/1	7			Pro	ject :	Nun	nber	: 201	6/17	-6	(Dry)
Sampling Team:												
LAB USE ONLY	SAMPLE ID	DATE, COLLE		Total Coliform (25 Tube Method - MPNX)	Fecal Coliform (25 Tube Method - MPNX)	Enterococcus (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)	Total Coliform (Tray Method - WQ IDEXX)	DNA Filters		Number of Bottles	NOTES
	ME-VR2	5/23/17	1110	X	X	X	Х	Х	X			2 DNA Filters
	MO-OJA	V	0920	Х	Х	X	Х	X	X			2 DNA Filters
	MOFME		-	X	X	X	×	Y	Ж			2-DNA Filters DRY
	MO-HUE	5/23/17	1220	X	X	X	X	X	X			2 DNA Filters
н												
						97						
Relinquished	Printed Name	KELL	-Y +1A	HS								
-	Signature	tolk	. 11									
	Affiliation	VEWPD C	2		Date	/Tir	ne		5 h	3	1-	7
Received	Printed Name	Sale	ndor x	12	54	ER	A6.		1			
	Signature	08	Bar	u	He	ol.						
	Affiliation	P.H. UA	57	/1	Date	/Tir	ne _	-	5/	23/	1	7 13:04
Other Notes:	Perform bacteriologic	al analyses with	in 6 hours of	sam	ple c	olle	ction	n tim	ne			
	1:10 1:100, and 1:1000	dilutions for E	Interococcus	and	Е. с	oli						



## Ventura County Watershed Protection District

NPDES Stormwater Monitoring Program Project: NPDES Stormwater Dry Weather (Contract AE17-001)

7E23083

Grabs - Weck Laboratories (SIDE 1 of 1)

Sampling Date: Sampling Team:	5;							-	Pro	ject	Nur	nbei	r: <u>20</u>	16/1	17-6	(Dry) Grabs
SAMPLE ID ME-VR2 MO-OJA MO-MEI MO-HUE	DATE	/TIME ECTED 1\10 0920	2	1	2	2 C MTBE & 2CLEVE (EPA 624)	☐ ☐ ☐ ☐ Travel Blanks (EPA 624)-only analyze if hits								6 6 6 Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.  NOTES
Relinquished	Printed Nam Signature Affiliation	e KE	H	42			Hs		Date	 	me		5	23	3/1-	7 / 1440
Received	Printed Name Signature Affiliation	• <u>D</u>	2/	<i>5</i>	\	la la c		. 201.	Date							3-17
Other Notes:	Travel blanks EPA 624 has										MT	BE (	or 2-	CLE	EVE)	10 5/2/12 11:42 17:0



Ventura County Watershed Protection District NPDES Stormwater Monitoring Program 程500 34 subj

Project: NPDES Stormwater Dry Weather (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of 1)

Sampling Date:	5/1 K:H/	4/17							Proje	ct N	uml	oer: 2	2016	/17-	-6 (I	Dry) Grabs
Sampling Team:	K.H	3HS 5	. <u>C</u>	RE	E	R_							·····			
			Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only analyze if hits								Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
_	DATE/		il & (	yanid	RO (	TBE	ravel								lumb	NOTES
SAMPLE ID ME-SCR	5 4 17			1	2	3	<u>T</u>						$\dagger$	1	9	NOTES
MO-SPA	-DR		2	1	2	3	-1								9	DRY
MO-FIL	5/4/17	0820	2	1	2	3	1								9	<u> </u>
MO-OXN		11950	2	1	2	3	1								9	
MO-VEN	<b>V</b>	1050	2	1	2,	3	1								9	
									_							
			<u> </u>				<u> </u>									
Relinquished	Printed Nam	ıe <u>K</u> 1	<u> </u>	رب	<i>i</i>	H	145	5								
	Signature	(6		H	S											
	Affiliation	VC	Per	<u> </u>				-	Dat	e/Ti	me	,	<u> 5/4</u>	<u> </u>	7	/ 1455 '
Received	Printed Nam	ie	تنعيرير	<u>,                                     </u>		<i>~</i>										
	Signature		bol.	, , , , ,	<u> </u>	مرسس	,									
	Affiliation		A CONTRACTOR OF THE PARTY OF TH		المثن بيست تشكم	est. Person	E3=04= * · ·	-	Dat	e/Ti	me	,	5		4-1	7
Other Notes:	Travel blank										f MT	ґВЕ	ог 2-	-CLI	EVE	
	EPA 624 has	s replaced E	PA .	524.2	2 for	MI	BE :	and	2-Cle	eve						Janglmar 5/4/17 1745



#### Ventura County Watershed Protection District



Project: NPDES Stormwater Dry Weather (Contract AE17-001)

Grabs - Weck Laboratories (SIDE 1 of 1)

Sampling Date:		5/18/17							Proje	ct Ñ	um	ber:	201	6/17	7-6 (1	Dry) Grabs
Sampling Team:	<u></u> K	CHAHS,		عد		A	2E >	/								
SAMPLE ID		DATE/TIME	Oil & Grease (EPA 1664A)	Cyanide (ASTM D7511)	GRO (EPA 8015B)	MTBE & 2CLEVE (EPA 624)	Travel Blanks (EPA 624)-only analyze if hits								Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks.
ME-CC		8/17 1046	2	1	2	3	1								9	
MO-MPK		୍ଷାତ	2	1	2	3	1								9	
MO-SIM		0915	2	1	2	3	1								9	
МО-ТНО		1010	2	1	2	3	1								9	
MO-CAM		/ 1125	2	1	2	3	1								9	
Relinquished	Printe Signat			X	9	At S			Date	/Tim	ne _		5	5/1	81	17/1520
Received	Printe	ed Name		1		· ·										/
	Signat	- 30	4	7 D	10	> ~	Ý									
	Affilia			a [					Date	/Tim	ie _		5	-/8	9-1	7
Other Notes:	Trave	l blanks are only to	be a	naly	zed :	if sar	nples	ha	ve hit	s of l	ΜΊ	ВE	or 2	-CL	EVE	<u> </u>
		624 has replaced E1														
		(AH)	17				13</td <td>द्री।</td> <td>7</td> <td>R</td> <td>2%</td> <td>7</td> <td></td> <td>3</td> <td>4</td> <td>-</td>	द्री।	7	R	2%	7		3	4	-

Ventura Countywide Stormwater and arty Management Program 2016/17 Annual Report Page DE - 55

Attachment D Appendix E



# Harter County

### Chain of Custody Record

#### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Dry Weather (<u>Contract AE17-001</u>) Composites - Weck Laboratories (SIDE 1 of 1)

MO-HUE 5/13/17 12:20 X X X X X X X X X X X X X X X X X X X	Sampling Date:	5/23/17							Proj	ect l	Vum	ber:	201	6/17	7-6 (1	Dry) Composites
DATE/TIME  SAMPLE ID  COLLECTED  ME-VR2  SAMPLE ID  MO-OJDA  MO-OJDA  MO-OHUE  Selinquished  Printed Name  A  Collegion of All Market All Association of All	Sampling Team:	K. HAH	<u>5</u>													
MO-HUE 5/23/17 12:20 X X X X X X X X X X X X X X X X X X X	SAMPLE ID ME-VR2 MO-OJA	DATE/TIME COLLECTED 5/23/17/11/0		X	X X Metals, total & dissolved (+ Hardness), &	Χ	X	× NO3+NO2 (353.2), Cl, F, SO4 (300.0),	X	X 625-CTR, 8270SIM-PAH, 8270SIM-Phenols	X	X X	X X	$  \times   \times   \times  $ ALK, CLO4, Turb, TDS, TSS, VSS,	1	Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS  Lab to select samples for MS/MSD where extra volume permits (all test
Relinquished Printed Name KELLY HAHS				722	$\Delta$	77	Н	77		A		-				DRY
	MO-HUE	5 [23][ ( \220)		A	A	Λ		A		A	A	A	A	A	1	
Affiliation Date/Time 5/23/17/1440	Relinquished	Signature	ely)	d'G	)				Dat	e/Ti	ime	5	/2:	3/1	7/	1440
Received Printed Name  Signature  Affiliation  Received Printed Name  Date/Time 5-23-17	Received	Signature	Be.	110	16		~ ?		Dat	e/Ti	ime	5.	- 2	' J		
Other Notes:  1) Filter for dissolved metals and perform conductivity analyses immediately.	Other Notes:	1) Filter for dissolved	metals a	nd pe	erfor	m cc	ondu	ıctivi	tv 21	nalvs	es ir	nme	diate	elv.		
2) Please do not dilute limited volume samples when enacting priority list (low reporting limits are important).										_				_	mpo	



#### **Ventura County Watershed Protection District** NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Dry Weather (Contract AE17-001) **Equipment - Weck Laboratories** 

Sampling Date: Sampling Team:	5/23/17 K. HAHS	7		:	Project	Number	:: 2016/17-6 (Dry) Cleaning
	EQUIPMENT		Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required		NOTES
18.5 L wide neck	x carboy and lid	3	2				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Blue cube cooler					3		
Black bags		-			3		
20 L narrow neck	x carboy, 2 lids, attachmen	it assembly	生				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
						:	
Relinquished	Printed Name Signature Affiliation	College	LY JS Vewl	<u>HAH</u> D_	Date/T	ime	5/23/17/1440
Received	Printed Name Signature Affiliation	Bilai	1616	2	Date/T	ime	5-23-10
Other Notes:	* Please clean with de	tergent, nitri	ic, and m	nethanol a	and <b>do 1</b>	not rinse	e after methanol step (allow to air dry after
	methanol cleaning to	avoid organi	cs conta	mination)	). Recor	d the bo	ttles cleaned with methanol.



### Ventura County Watershed Protection District

7E04057

NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Dry Weather (<u>Contract AE17-001</u>) Composites - Weck Laboratories (SIDE 1 of 1)

MO-FIL    S/4/17 0820   X X X X X X X X X X X X X X X X X X	Sampling Date:	5/4/17						_	Proj	ect l	Nun	ıber:	201	6/1	7-6 (	Dry) Composites
DATE/ITME	Sampling Team:	K. HAHS	5. GF	∖હર	ER.											
Signature Affiliation  Printed Name Signature Affiliation  Date/Time  Date/Time  5/4/17 1455	SAMPLE ID	COLLECTED 5/4/17 0940		X X X	X X K Metals, total & dissolved (+ Hardness), &	X X X	X X X BOD, COD, MBAS, TKN, Ammonia,	X X X X	X X X	X X X X 625-CTR, 8270SIM-PAH, 8270SIM-Phenols	X X 515.3-Herb	X X X	X X X X	X X X ALK, CLO4, Turb, TDS, TSS, VSS,	1 1 Number of	Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 62SCTR, 8270SIM-PAH, & 8270SIM-PHENOLS  Lab to select samples for MS/MSD where extra volume permits (all test
Signature Affiliation  Printed Name Signature Affiliation  Date/Time  Date/Time  Date/Time  Date/Time  1) Filter for dissolved metals and perform conductivity analyses immediately.																
Signature Affiliation Date/Time 5-4-17 2:40Pm  Other Notes:  1) Filter for dissolved metals and perform conductivity analyses immediately.	Relinquished	Signature	SELL'	4	<u> </u>		5		Dat	e/Ti	ime		5/	41	17	1455
	Received	Signature	<u> </u>			- Andrew - A	-		Dat	e/Ti	ime		5	***	4	17 2: 40 pm
	Other Notes: 2) Please do not dil													-	mpo:	rtant).



7E04057

#### Ventura County Watershed Protection District

#### NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Dry Weather ( $\underline{Contract\ AE17-001}$ )

**Equipment - Weck Laboratories** 

Sampling Date:	5/4/17			Project 1	Number: 2016/17-6 (Dry) Cleaning
Sampling Team:	K. HAHS S. GREE	R.			
	EQUIPMENT	Clean with detergent and HNO3	Clean with detergent, HNO3, and methanol*	No action required	NOTES
18.5 L wide neck	carboy and lid				Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Blue cube cooler				4	
Black bags				4	
20 L narrow neck	carboy, 2 lids, attachment assembly	4			Please place tape or plastic bag over top and note on wrap if bottle was cleaned with methanol.
Relinquished	Printed Name KELLY Signature Kelly Affiliation	<u> HA</u> ಎ ಬಳಿD		Date/T	Time 5/4/17/1455
Received	Printed Name  Signature  Affiliation			Date/T	Time 5-4-17
Other Notes:	<del> </del>				not rinse after methanol step (allow to air dry after rd the bottles cleaned with methanol.



# HENTURA COUNTY

#### Chain of Custody Record

#### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Dry Weather (Contract AE17-001)

Composites - Weck Laboratories (SIDE 1 of 1)

Sampling Date:	5/18/17						_	Proj	ect ?	Num	ber:	201	6/1	7-6 (	Dry) Composites
Sampling Team:	<u>K.HAHS</u>	<u>w</u>	<u>3</u>	. (	A	RE	<del>/</del>								
SAMPLE ID	DATE/TIME COLLECTED	NO3-N, Total Chlorine Residual	Dissolved Inorganic Carbon and Dissolved Organic Carbon	Metals, total & dissolved (+ Hardness), & Barium (total only)	Cr+6	BOD, COD, MBAS, TKN, Ammonia, TOC	NO3+NO2 (353.2), Cl, F, SO4 (300.0), Phenolics	Phosphorus-P Total & Dissolved	625-CTR, 8270SIM-PAH, 8270SIM-Phenols *	515.3-Herb 547-Glyphosate, 608-CTR	525.2 Reg+507, 525-OPP-LL	DRO/ORO (EPA 8015B)	ALK, CLO4, Turb, TDS, TSS, VSS, Cond	Number of Bottles	Metals by200.8, Total & Dissolved: Sb, Ag, Al, As, Be, Cd, Cr, Cu, Fe, Ni, Pb, Se, Tl, Zn, Hg  Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.), AND Na, K  608 include alpha- & gamma-chlordane  * Same extraction with low-level spike for 3 methods: 625CTR, 8270SIM-PAH, & 8270SIM-PHENOLS  Lab to select samples for MS/MSD where extra volume permits (all test
ME-CC	5/18/171036	X	X	X	X	X	X	X	X	X	X	X	X	1	
MO-MPK	0810		Х	X	X	X	X	X	X	X	X	X	X	1	
MO-SIM	0915		X	X	X	X	X	X	X	X	X	X	X	1	
мо-тно	1010		х	х	Х	X	X	Х	X	X	X	X	X	1	-
MO-CAM	1120		X	Х	Х	X	Х	Χ	Х	Х	X	X	X	1	
Relinquished	Printed Name Signature	a K	17 17 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	48	,		Αŧ						lie	·/	7 1520
Received	Affiliation Printed Name	2	2	<u> </u>	***************************************			Date	e/ I 1 —	me		<u></u>	/18	Щ,	1500
	Signature	Aci	<u>ک</u> د	<u>l</u> e	<u>'1</u>	<u>ل</u>		Date	e/Ti	me		5	-1 <i>ε</i>	7-1	1
Other Notes:	Filter for dissolved rate limited volume sample		_			_								2042	rtant)
∠ <sub>j</sub> i icase do not and	ic minica volume sampl	When	c1120	cung	Pric	лиу	пат (	TOW	терс	лúП	g m	.пі\$ 2	41E 11	.про:	main).

Z<sub>irt</sub> :

Ventura Countywide Stormwater Challe Management Program 2016/17 Amjust 51816 PE - 61827

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#### **Ventura County Watershed Protection District**

#### NPDES Stormwater Monitoring Program

Project: NPDES Stormwater Dry Weather (*Contract AE17-001*)
Equipment - Weck Laboratories

5/18/17 Sampling Date: Project Number: 2016/17-6 (Dry) Cleaning K. HAHS Sampling Team: Clean with detergent, HNO3, and Clean with detergent and HNO3 No action required methanol\* **EQUIPMENT** NOTES Please place tape or plastic bag over top and note on wrap 18.5 L wide neck carboy and lid if bottle was cleaned with methanol. Blue cube cooler 5 Black bags Please place tape or plastic bag over top and note on wrap 20 L narrow neck carboy, 2 lids, attachment assembly if bottle was cleaned with methanol. KELLY HAHS Relinquished Printed Name Signature Affiliation Date/Time Received Printed Name Signature Affiliation \* Please clean with detergent, nitric, and methanol and do not rinse after methanol step (allow to air dry after Other Notes: methanol cleaning to avoid organics contamination). Record the bottles cleaned with methanol.

Ventura Countywide Stormwater Quality Management Program 2016/17 Annual Report Page DE - 61

Attachment D Appendix E

# VENTURA COUNTY

# Chain of Custody Record Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Major Outfall Dry Weather Monitoring Bacteriological - VCHCA Lab

JEUN C 1400 inabate C 1420

Sampling Date: Sample Event: DRY 2017

Sampling Team: W.B. CAREY

LAB USE ONLY	SAMPLE ID	DATE/T COLLEC		Total Coliform (Tray Method - W	E. coli (Tray Method - WQ IDE)			Number of Bottles	NOTES
\	Camarillo-14	8/3/17	0915	×	×			l	MONTH DRY-CAMY
	Fillmore-1								MO-FIL
2	Moorpark-1	8/3/17	1020	×	7			1	MO-MPK
	Ojai-1								MO-OJA
3	Oxnard-2	8/3/17	0800	X	×			1	MOONN DRY- ON 2
GA	Port Hueneme-3	CEC3170			X				DRY HUE3
	Santa Paula-2								DRY-SPA2
4	Simi Valley-1	8/3/17	1055	×	×			1	MO-SIM
5	Thousand Oaks-1	8/3/17	1140	$\times$	×			ſ	МО-ТНО
G	Unincorporated-42	8/3/17	1240	×	*			1	DRY-UNI <b>42</b>
	Ventura-1	12-3/-				+			MO-VEN
elinquished	Printed Name	KEL	LYH	AH	15				
	Signature	Collect	ds						
	Affiliation	VCWPD			Date	/Time _	8/3	3/17	/1351
eceived	Printed Name	Nadia 1	west						
	Signature	$\sim$							
	Affiliation	PH LAT	3	]	Date,	Time_		_	C 1355
ther Notes:	1:10, 1:100, and 1:1000	dilutions				Po	nt t	tere	me-3 Rado 1457
		Go						1	



# Ventura County Watershed Protection District NPDES Stormwater Monitoring Program Major Outfall Dry Weather Monitoring Bacteriological - VCHCA Lab

	JRA COUNT	Bacter	riolo	gica	1 - VCHC	A Lab	
Sampling Date:	8/2/17		-	Samp	ple Event:	DRY 2017	
Sampling Team	W.B. CA	REY, K. HAHS	_				
LAB USE ONLY	SAMPLE ID	DATE/TIME COLLECTED	Total Coliform (Tray Method - WQ IDEXX)	E. coli (Tray Method - WQ IDEXX)		Number of Bottles	NOTES
	Gamarillo-1					4	MO-CAM
	Fillmore-1	8/2/17 0945	X	$\chi$			MO-FIL
	Moorpark-1						MO-MPK
	Ojai-6	8/2/17 1120					MO-OJA
	Oxnard 1		F				MO-OXN
	Port-Hueneme 3						DRY-HUE3
	Santa Paula-#4	8/2/17 0850					DRY-SPA <b>34</b>
	Simi Valley-1						MO-SIM-
	Thousand Oaks 1						MO-THO
	Unincorporated 4						DRY-UNI4
	Ventura-5	8/2/17 13:15					MO-VEN
Relinquished	Printed Name Signature	KELLY HAHS					
	Affiliation	_ Crewso		Date/	Time 8	2/17/	1410
Received	Printed Name	SA 4 By	yek	146	40	,	
	Signature	\$ 2/M	ar	-1	1		
	Affiliation	P.H-(LAb)		Daye!	Time _ 8/	2/17	14:14
Other Notes:	1:10, 1:100, and 1:100	00 dilutions	-				



Ventura Countywide Stormwater Quality Management Program 2016/17 Annual Report

#### Chain of Custody Record

#### Ventura County Watershed Protection District NPDES Stormwater Monitoring Program

Major Outfall Dry Weather Monitoring

7H04092

Grabs - Weck Laboratories Invoice Contract No. AE17-001

Sampling Date:	8/2/17	+8/3/1	7		Sample	Event:	DRY 2	017			
ampling Team:	NB.	CAREY	K.HAHS								
		DATE/		Total Hardness	тос	Dissolved Metals by 200.8 (Lead, Zinc, Copper)		Number of Bottles	Lab to select samples for MS/MSD where extra volume permits (all test methods) excluding travel blanks. Metals by 200.7, Total (only): Ca, Mg (for Hardness calc.)		
SAMP	LE ID	8/3/17	O915	X	X	X X		Z	NOTES		
llmore-1		8/2/17	0945	X	X	X					
loorpark-1		8/3/17	1020	X	Х	X					
jai- <b>6</b>		8/2/17	1120	Х	Х	X					
xnard- <b>1</b>		8/3/17	<b>∂%</b> 0	Х	Х	X					
ort Hueneme-3		8/3/17	1420	Х	X	Х					
ınta Paula- <b>4</b> 🕂		8/2/17	o850	X	Х	X					
mi Valley-1		3/3/17	1055	Х	X	Х					
housand Oaks-1			(140	X	X	X					
nincorporated-2		V	1240	Х	X	X					
entura- <b>5</b>		8/2/17	13:15	Х	X	X					
elinquished	Printed Name Signature	Lara 1	Yeeke Ma	1 ^							
	Affiliation	VEWE		<u> </u>	Date/Ti	me	8/4/	17	11:05		
eceived	Printed Name	_kg	whan	Varia	avio						
	Signature Affiliation	Made lakes 8/4/19 1105									
ther Notes:	Dissol	rd mate	15 felo	— I Nter	Date/Ti	տe —_ Լ_ չ <b>∔</b> ւ	reer	12"	eserved.		
	Countywide	10	e e	Page	5/4/1	73	m	<u>'</u> <del></del> T	awalmin 8/4/13 ISDO Altachment D Appendix E		